INDEX TO SPECIAL NOTICE TO MARINERS PARAGRAPHS Title

Paragr	raph Title				
1*	Warning on Use of Floating Aids to Navigation to Fix a Navigational Position				
2*	Nautical Chart Symbols and Abbreviations Information				
3	Use of the Metric System on NIMA Products				
4	Geographic Names Usage for NIMA Products				
5	Caution-Use of Foreign Charts				
6	International Association of Lighthouse Authorities (IALA) Maritime Buoyage System				
7	International Ice Patrol Service				
8*	Special Warnings				
9	Trade with Cuba				
10*	Automated Mutual-Assistance Vessel Rescue (AMVER)				
11*	IMO Merchant Ship Search and Rescue (MERSAR) Manual and				
	International Aeronautical and Maritime Search and Rescue (IAMSAR) Manual				
12	Special Reporting Instructions for U.S. Flag Vessels, Vessels Carrying War Risk Insurance				
	and Certain other Designated Vessels (Formerly USMER Vessels)				
13	Urgency and Safety Signals				
14	Submarine Emergency Identification Signals and Hazard to Submarines				
15	Rules, Regulations and Proclamations Issued by Foreign Governments				
16	Warning-Danger from Submarine Cables and Pipelines				
17*	Caution-Close Approach to Moored Offshore Aids to Navigation				
18	Pipeline Laybarges and Jetbarges				
19	Required Reporting of Damaged U.S. Aids to Navigation				
20	Oil Pollution-Compliance with the Clean Water Act				
21	Compliance with the Act to Prevent Pollution from Ships				
22	Packaged Marine Pollutants-Complying with MARPOL Annex III				
23	Pollution-Ocean Dumping				
24*	Warning-Possible Danger from Unlabeled Intermodal Containers and Drums				
25*	Reporting of Dangers to Navigation				
26*	Vessel Bridge-to-Bridge Radiotelephone Regulations				
27	Seismic Surveys				
28	United States-Caution Regarding Submarine Operations				
29	Special Rules with Respect to Additional Station and Signal Lights for Navy Ships				
30	United States Naval Vessels-Navigational Light Waivers-Distinctive Lights Authorized for				
	Naval Vessels				
31	Traffic Saparation Schames and Areas to be Avaided				

^{*} Denotes significant change

	Paragraph Title				
32	Firing Danger Areas				
33	LORAN Information				
34*	Endangered Species (Whales and Sea Turtles) Eastern Seaboard				
35	Reporting Depth Information				
36	Warning-Mined Areas				
37*	Mined Areas Reported.				
38	Minesweeping-Caution-Attention is Called to the following Instructions				
39	United States-Explosive Ordnance-Warning-General.				
40	Caution-Oil Well Structures in Waters Contiguous to the U.S. and its Territories				
41	Caution Regarding Approach of Single Vessels Toward Naval Formations and Convoys				
42*	National Imagery and Mapping Agency Distribution System				
43	Chart Notes Regarding Different Datums				
14	International Hydrographic Organization (IHO)				
45	International Distress Signals				
46	Worldwide Navigational Warning Service (WWNWS)				
17	Special Weather Reports or SATCOM from Ships				
48	Radar Beacons (RACONs)				
19*	NAVTEX				
50*	Satellite Detection of Distress Signals				
51	HF and VHF Radiotelephone and Radiotelex Marine Safety Broadcasts				
52*	MARAD Advisories				
53	Navigation Rules, International-Inland				
54	Improper Use of Strobe Lights, Searchlights and Dangerous Cargo Light				
55	Guidelines for WGS Datum Conversion				
56*	Anti-Shipping Activities Message				
57	Caution on Announcement of New Charts and Publications				
58	Global Positioning System (GPS)				
59	Safety Satellite Telecommunications Services				
50	Digital Selective Calling Distress Alert Relays				
51	Vessel Squat in Shallow Water				
52	Promulgation of Maritime Safety Information by U.S. Information Providers				
63	Coast Guard Safety Information Available on Internet				
54*	National Ocean Claims				
65*	U.S. Economic Sanctions: Concerns for Mariners				

^{*} Denotes significant change

(1) WARNING ON USE OF FLOATING AIDS TO NAVIGATION TO FIX A NAVIGATIONAL POSITION.

The aids to navigation depicted on charts comprise a system consisting of fixed and floating aids with varying degrees of reliability. Therefore, prudent mariners will not rely solely on any single aid to navigation, particularly a floating aid.

The buoy symbol is used to indicate the approximate position of the buoy body and the sinker which secures the buoy to the seabed. The approximate position is used because of practical limitations in positioning and maintaining buoys and their sinkers in precise geographical locations. These limitations include, but are not limited to, inherent imprecisions in position fixing methods, prevailing atmospheric and sea conditions, the slope of and the material making up the seabed, the fact that buoys are moored to sinkers by varying lengths of chain, and the fact that buoy and/or sinker positions are not under continuous surveillance but are normally checked only during periodic maintenance visits which often occur more than a year apart. The position of the buoy body can be expected to shift inside and outside the charting symbol due to the forces of nature. The mariner is also cautioned that buoys are liable to be carried away, shifted, capsized, sunk, etc. Lighted buoys may be extinguished or sound signals may not function as the result of ice or other natural causes, collisions, or other accidents. Many of these factors also apply to articulated lights.

For the foregoing reasons, a prudent mariner must not rely completely upon the position or operation of floating aids to navigation, but will also utilize bearings from fixed objects and aids to navigation on shore. Further, a vessel attempting to pass

close aboard always risks collision with a yawing buoy or with the obstruction the buoy marks. (Supersedes N.M. 1(1)99)

(PUB0015/1999)

(2) NAUTICAL CHART SYMBOLS AND ABBREVIATIONS INFORMATION.

Symbols and abbreviations approved for use on all regular nautical charts published by the National Imagery and Mapping Agency and the National Ocean Service are contained in the November 1997 edition of Chart No. 1, United States of America Nautical Chart Symbols, Abbreviations and Terms. This publication is available from the National Imagery and Mapping Agency and the National Ocean Service NOAA, and its sales agents.

The introduction to this publication includes a number of paragraphs on metric and fathom charts, soundings, drying heights, shorelines, landmarks, buoys, IALA buoyage, heights, conversion scales, traffic separation schemes, and correction dates.

Buoys and Beacons of the IALA Buoyage System Regions A and B are illustrated in the back of Chart No. 1, including light

characteristics in full color.

The various sections comprising the Table of Contents follow the sequence presented in The International Hydrographic Organization (IHO) Chart 1 (INT1); therefore, the numbering system in this publication follows the standard format approved and adopted by the IHO. Where appropriate, each page lists separately the current preferred U.S. symbols shown on charts of the National Ocean Service (NOS) and NIMA. Also shown in separate columns are the IHO symbols and symbols used on foreign charts reproduced by NIMA. (Supersedes N.M.1(2)99) (NIMA/GIMM)

(3) USE OF THE METRIC SYSTEM ON NIMA PRODUCTS.

1. The National Imagery and Mapping Agency (NIMA) is continuing the program to gradually convert the depths and heights on nautical charts and in publications to the metric system. Although many facsimile reproductions of foreign charts have shown depths and heights in meters for several years, the NIMA originated charts began to show depths and heights in meters instead of fathoms and/or feet in January 1970. Depths are shown in meters (usually in meters and decimeters to 21 meters) and boldly stated in the chart title and in purple colored type in the outer chart borders. A conversion table from meters and decimeters to fathoms and feet is also carried on each chart.

2. List of Lights, Radio Aids and Fog Signals and Sailing Directions, as they are reformatted, will adopt the Metric Measurement System as feasible.

(Repetition N.M. 1(3)99)

(GIMM)

(4) GEOGRAPHIC NAMES USAGE FOR NIMA PRODUCTS.

Wherever possible, names used on NIMA charts and in NIMA publications are in the form approved by the United States Board on Geographic Names. Generally, local official spellings are used for those features entirely within a single sovereignty, while names of countries and those features which are common to two or more countries or which lie beyond single sovereignty carry Board-approved conventional spellings (i.e. names in common American usage). When alternate names would be of value to the user, they may be shown for information purposes within parentheses. Important individual name changes are made to all revised charts as the opportunity permits. Geographic names or their spellings do not necessarily reflect recognition of the political status of an area by the United States Government. (Repetition N.M. 1(4)99) (GIMM)

(5) CAUTION-USE OF FOREIGN CHARTS.

1. In the interest of safe navigation, caution should be exercised in the use of foreign charts not maintained through U.S. Notice to Mariners.

2. Foreign produced charts are occasionally mentioned in NIMA Sailing Directions when such charts may be of a better scale than U.S. produced charts. Mariners are advised that if or when such foreign charts are used for navigation it is their responsibility to maintain those charts from the Notice to Mariners of the foreign country producing the charts.

3. The mariner is warned that the buoyage systems, shapes, colors, and light rhythms used by other countries often have a different significance than the U.S. system.

(Repetition N.M. 1(5)99)

(GIMM)

(6) INTERNATIONAL ASSOCIATION OF LIGHTHOUSE AUTHORITIES (IALA) MARITIME **BUOYAGE SYSTEM**

The IALA Maritime (combined Cardinal/Lateral) Buoyage System has been, is being, or will be implemented by nearly every maritime buoyage jurisdiction worldwide as either REGION A buoyage (red to port) or REGION B buoyage (red to star-

every maritime buoyage jurisdiction worldwide as either REGION A buoyage (red to port) or REGION B buoyage (red to starboard). The actual conversion in REGION A began in 1977 and is continuing. Conversion in REGION B has begun and it can be anticipated that several years will be required to complete the transformation.

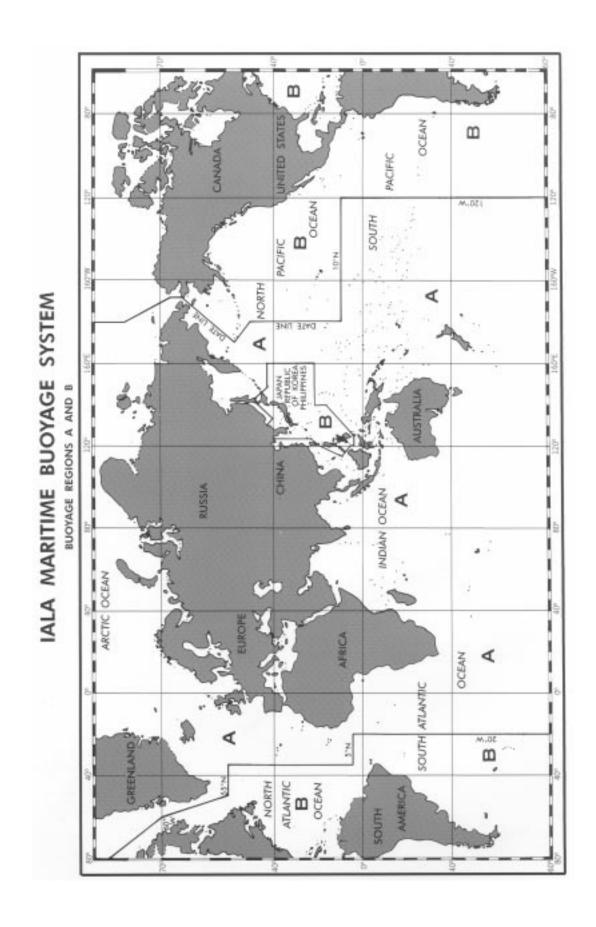
The terms "REGION A" and "REGION B" will be used to determine which type of buoyage region is in effect or undergoing conversion in a particular area. The major difference between the two buoyage regions concerns the lateral marks. When viewed from sea, the lateral marks in REGION A will be red to port; in REGION B they will be red to starboard. Shapes of lateral marks will be the same in both REGIONS, can to port; cone (nun) to starboard. Cardinal and other marks will continue to follow current guidelines and may be found in both REGIONS. A modified lateral mark, indicating the preferred channel where a channel divides, has been introduced for use in both REGIONS. It is intended that after a reasonable period of time, each chart will make reflection to REGION A or REGION B to indicate which type of lateral buoyage is in use in that particular area. The precise limits between the two REGIONS cannot be defined at this time: however, a graphic illustration showing lar area. The precise limits between the two REGIONS cannot be defined at this time; however, a graphic illustration showing the approximate REGION A and B limits can be found on the following page.

Mariners are advised that the U.S. maritime aids to navigation system has been modified to incorporate the International

Association of Lighthouse Authorities (IALA) Maritime Buoyage System for REGION B.

(Repetition N.M. 1(6)99)

(USCG (G-OPN-2), Wash., D.C.)



(7) INTERNATIONAL ICE PATROL SERVICE.

1. Between the months of February and August, the International Ice Patrol (IIP) conducts its annual mission of defining the limits of iceberg distribution in the northwest Atlantic and providing iceberg warnings to mariners. IIP determines iceberg distribution using iceberg sighting reports filed by ships and planes crossing the area. It also regularly conducts ice reconnaissance patrols to monitor the region of the Grand Banks of Newfoundland and define the southern, southeastern and southwestern limits of iceberg distribution in this dangerous region. Ice Patrol Bulletins for 00Z and 12Z daily Ice Limits are broadcast via Voice, SITOR (RATT), NAVTEX and INMARSAT-C SafetyNET. There is also a daily 12Z Ice Limit Radiofac-simile Chart that is both broadcast and available through the Internet. Details are contained in Chapter 3 of Radio Navigational

2. All shipping is requested to assist in the operation of the International Ice Patrol by reporting all ice sightings. Format and

content of ice sighting messages are included in Pub. 117.

(Repetition N.M. 1(7)99)

(USCG (G-OPN-1), Wash., D.C.)

(8) SPECIAL WARNINGS (In force 25 December 1999).

SPECIAL WARNING NO. 1.

Navigational warnings broadcast by NIMA are normally divided into categories, HYDROLANTS and HYDROPACS, referring respectively to the Atlantic and Pacific Oceans. It has been determined there now exists a need for disseminating information of general interest not covered by the above categories. Therefore, with this message the Special Warnings series is reintroduced. The messages will be transmitted from all U.S. Navy and Coast Guard Stations broadcasting Hydros. (May 27, 1948).

SPECIAL WARNING NO. 29.

1. Mariners are advised to use extreme caution in transiting the waters surrounding Cuba. Within distances extending in some cases upwards of 20 miles from the Cuban coast, vessels have been stopped and boarded by Cuban authorities. Cuba vigorously enforces a 12-mile territorial sea extending from straight baselines drawn from Cuban coastal points. The effect is that Cuba's claimed territorial sea extends in many cases beyond 12 miles from Cuba's physical coastline.

2. The publication of this notice is solely for the purpose of advising United States mariners of information relevant to navigational safety and in no way constitutes a legal recognition by the United States of the validity of any foreign rule, regulation, or

proclamation so published.

March 1, 1962, updated January 1, 1982, reviewed November 9, 1994).

SPECIAL WARNING NO. 71.

MEDITERRANEAN SEA—LEBANON.

1. The situation in Lebanon remains extremely hazardous, and the danger to U.S. citizens there is high, including the risk of

terrorist attack against vessels under the U.S. flag or which are operated by U.S. concerns. U.S. mariners are therefore strongly urged to avoid the ports and territorial waters of Lebanon.

2. The U.S. Department of State warns all U.S. citizens of the danger of travel to Lebanon. Therefore, the Department recommends that only those Americans with compelling reasons should consider traveling to Lebanon. Americans have in the past been targets of numerous terrorist attacks in Lebanon. The perpetrators of these attacks are still present in Lebanon, and retain the ability to act. Due to limited staff and the local security environment inhibiting movement of U.S. officials in much of the country, the U.S. Embassy in Beirut cannot perform routine consular functions and may not be able to provide timely assistance to Americans traveling in Lebanon. U.S. citizens who travel to Lebanon despite this warning should exercise extreme caution. U.S. citizens traveling to Lebanon are encouraged to register at the U.S. Embassy in Beirut.

3. Cancel SPECIAL WARNING NO. 68 and this paragraph.

(MCNM) (21 Jul 1987) (Revised by Dept. of State, 29 Oct 1997)

SPECIAL WARNING NO. 77. PAPUA NEW GUINEA—BOUGAINVILLE COAST.

1. Bougainville Island declared unilateral independence from Papua New Guinea May 17, 1990. The government of Papua New Guinea does not recognize the declaration. Consequently, the political situation may be tense in the future.

2. The following Notice to Mariners No. 36/90 issued by the government of Papua New Guinea is quoted in its entirety:

Overseas vessels are advised to stand clear of the islands of Bougainville and Buka and to remain outside of territorial waters extending 12 nautical miles from the coast of Bougainville and immediately adjacent islands but excluding Solomon Islands Territory, and excluding the groups of islands or atolls known as Feni, Green, Nuguria, Carteret, Mortlock and Tasman. Any vessel entering the waters adjacent to Bougainville or Buka will be subject to stop and search powers. This notice to mariners is effective immediately (22nd May 1990 EST) in respect to overseas shipping. Papua New Guinea coastal vessels will be restricted as of midnight local time on 20th May 1990. Restrictions will continue for an indefinite period. Charts affected are BA 214, BA 2766, BA 3419, BA 3420, BA 3830, BA 3994, INT 604 and AUS 4604. Dept of Transport. Port Moresby. Papua New Guinea.

Unquote

3. U.S. mariners are advised to exercise extreme caution in entering and transiting the waters of Bougainville. (Dept. of State) (25 May 1990)

SPECIAL WARNING NO. 81.

1. Due to unsettled relations between the United States Government and the government of Libya, U.S. mariners are advised to exercise caution in transiting the waters of the Gulf of Sidra south of 32-30N. The United States does not maintain an embassy in Libya and cannot ensure the safety of its citizens.

2. The publication of this notice is solely for the purpose of advising United States mariners of information relevant to navigational safety and in no way constitutes a legal recognition by the United States of the validity of any foreign rule, regulation or

proclamation so published.

3. Cancel SPECIAL WARNING NO. 52.

(Dept. of State) (31 Aug 1990)

(8) SPECIAL WARNINGS. (Continued).

SPECIAL WARNING NO. 82.

MOROCCO.

1. U.S. mariners are advised to exercise caution within the territorial waters claimed by Morocco. Moroccan coastal protection warships, while engaged in anti-drug smuggling activities or enforcing territorial fishing rights, have been known to open fire

2. The publication of this notice is solely for the purpose of advising United States mariners of information relevant to navigational safety and in no way constitutes a legal recognition by the United States of the validity of any foreign rule, regulation or proclamation so published. (Dept. of State) (31 Aug 1990)

SPECIAL WARNING NO. 89. WEST COAST OF AFRICA—WESTERN SAHARA.

1. Prior to the September 1991 cease-fire between Morocco and the Polisario, unprovoked attacks on shipping off the coast of the Western Sahara by Polisario guerrillas using machine guns, grenades, and mortars occurred, resulting in the loss of life and

property.

2. Despite the cease-fire, the potential for violent incidents still exists. Mariners are advised to continue using extreme caution

and remain well offshore when transiting the waters off the west coast of Africa between 27-40N 13-11W and Cap-Blanc (20-47N 17-03W) and particularly between Dakhla (23-42N 15-56W) and Cape Corbiero (21-48N 16-59W).

3. The publication of this notice is solely for the purpose of advising United States mariners of information relevant to navigation safety and in no way constitutes a legal recognition by the United States of the validity of any foreign rule, regulation, or proclamation so published.
4. Cancel SPECIAL WARNING NO. 69. (Dept. of State) (16 Oct 1992)

SPECIAL WARNING NO. 92.

LIBERIA.

1. Mariners are advised to use caution when sailing near the coast of Liberia.

2. The United Nations Security Council has passed Resolution 788 (November 19, 1992), which says that "All states shall, for the purposes of establishing peace and stability in Liberia, immediately implement a general and complete embargo on all deliveries of weapons and military equipment to Liberia until the Security Council decides otherwise." Resolution 788 also "requests all states to respect the measures established by the Economic Community of West African States (ECOWAS) to bring shout a page full solution to the conflict in Liberia." bring about a peaceful solution to the conflict in Liberia.

3. Cancel SPECIAL WARNING NO. 90.

(Dept. of State) (03 Dec 1992, revised 29 Oct 1997)

SPECIAL WARNING NO. 95.

1. Mariners operating small vessels such as yachts and fishing boats should note that Nicaragua has boundary disputes with its neighbors in both its Caribbean and Pacific waters, especially with Honduras, and should exercise caution. There have been cases of foreign-flagged fishing vessels and other vessels being seized off the Nicaraguan coast by Nicaraguan authorities. The government of Nicaragua has adopted a new law that mandates the payment of a fine equal to 200 percent of the value of any boat caught fishing illegally within Nicaragua's Exclusive Economic Zone (EEZ).

2. While in all cases passengers and crew have been released within a period of several weeks, in some cases the ships have been searched, personal gear and navigational equipment have been stolen, and there have been excessive delays in releasing vessels. Prompt U.S. Embassy consular access to detained U.S. citizens on Nicaragua's Caribbean coast may not be possible

because of delays in notification due to the relative isolation of the region.

3. It should also be noted that there have been incidents of piracy in Caribbean and Pacific waters off the coast of Nicaragua, but the Nicaraguan navy has increased its patrols and no recent incidents have been reported.

4. Cancel SPECIAL WARNING NO. 91.

(Dept. of State) (10 Feb 1994, revised 29 Oct 1997)

SPECIAL WARNING NO. 100.

1. In the Persian Gulf, multi-national naval units continue to conduct a maritime operation to intercept the import and export of commodities and products to/from Iraq that are prohibited by UN Security Council Resolutions 661 and 687.

2. Vessels transiting the north Persian Gulf can expect to be queried and, if bound for or departing from Iraq or the Shatt-Al-

Arab waterway, also intercepted and boarded. Safe navigation may require vessels to be diverted to a port or anchorage prior to conducting an inspection.

3. Maritime interception operations in the Red Sea, Strait of Tiran and Strait of Hormuz have ceased. Cargo bound for Aqaba

- or transshipment from Aqaba will be inspected on shore by Lloyd's Register, according to an agreement worked out among Lloyd's Register, the UN Sanctions Committee, and the Aqaba Port Authority.

 4. Documentation requirements for the naval regime in the Persian Gulf and the shore-based regime in Aqaba are identical and can be found in the most recent MARAD Advisories and HYDROPACS covering the enforcement of UN sanctions against
- 5. Stowage and other requirements for vessels transiting the Persian Gulf can also be found in the most recent MARAD Advisories and HYDROPACS covering the enforcement of UN sanctions against Iraq.
- 6. Ships which, after being intercepted, are determined to be in violation of UN Security Council Resolution 661 will

(8) SPECIAL WARNINGS. (Continued).

not be allowed to proceed with their planned transit.

7. The intercepting ship may use all available communications, primarily VHF channel 16, but including International Code of Signals, flag hoists, other radio equipment, signal lamps, loudspeakers and other appropriate means to communicate directions to a ship.

8. Failure of a ship to proceed as directed will result in the use of the minimum level of force necessary to ensure compliance. 9. Any ships, including waterborne craft and armed merchant ships, or aircraft, which threaten or interfere with U.S. forces engaged in enforcing a maritime interception will be considered hostile. 10. Cancel SPECIAL WARNING NO. 80.

(Dept. of State) (11 Oct 1994)

SPECIAL WARNING NO. 102.

1. Mariners calling on Pakistan are advised that levels of sectarian and factional violence remain high. Karachi, the main port, continues to be affected by politically motivated killings.

2. On March 8, 1995 unknown assailants opened fire on an official U.S. Consulate shuttle in Karachi, killing two embassy

employees and wounding a third.

3. We know of no direct threats to other U.S. citizens, U.S. Government facilities, or U.S. businesses in the rest of Pakistan, though the controversial deportation last June 1997 to the U.S. of the fugitive Mir Aimal Kansi, suspected of the 1993 killing of two CIA officers outside CIA headquarters in Virginia, continues to fuel anti-American sentiment in Pakistan.

4. Port facilities and vessels may offer targets of opportunity for terrorist attacks. U.S. mariners are advised to exercise heightened security awareness and prudent security precautions when in Pakistani ports and waters. (Dept. of State) (14 Mar 1995, revised 29 Oct 1997)

SPECIAL WARNING NO. 103.

ALGERIA.

1. Due to domestic unrest and anti-foreign violence, U.S. mariners are advised to exercise extreme caution when in Algerian

waters. Continuing attacks against foreigners indicate that the level of risk in Algeria remains high.

2. Attacks against maritime vessels in Algerian ports have already taken place over the past year, and we have received recent indications that armed groups in Algeria may be planning further attacks against maritime targets. The U.S. embassy in Algiers specifically identifies ports and airline terminals as terrorist targets. Commercial shipping should remain on maximum alert when in Algerian waters and maintain adequate security precautions.

3. The Department of State continues to recommend that U.S. citizens avoid travel to Algeria and that Americans in Algeria

whose circumstances do not afford them effective protection depart the country.

4. Cancel SPECIAL WARNING NO. 101.

(Dept. of State) (24 Mar 1995)

SPECIAL WARNING NO. 104.

1. Mariners are advised to exercise extreme caution when transiting the waters of the North Persian Gulf.

2. Iranian-flag speedboats operating in Iranian and international waters have seized passports and ship documents or cargoes for ransom, occasionally hijacking the vessel as well.

3. In recent incidents, boarding parties claiming to be Iranian Revolutionary Guard Corps personnel used the pretext of conducting U.N. Embargo Inspections or of carrying out official law enforcement to gain access to ships.

4. Mariners should exercise caution and vigilance when operating near these areas, and should obtain and evaluate current warning information broadcast by the National Imagery and Mapping Agency (NIMA) via HYDROPAC broadcasts.

5. Any anti-shipping activity should be reported to NIMA NAVSAFETY, The U.S. State Department, or the nearest U.S. Con-

sulate (see NIMA Pub. 117-Chapter 4)

(Dept. of State) (11 May 1995, revised 29 Oct 1997)

SPECIAL WARNING NO. 105.

SOUTHERN RED SEA ISLANDS.

1. Mariners are advised to avoid the vicinity of the Hanish Islands (Jazirat Al Hanish Al Kabir and Jazirat Al Hanish as Saghir) 13-44N 042-44E, and nearby Zuqar Island (Jazirat Jebal Zuqar) 14-00N 042-45E.

2. Eritrea and Yemen are involved in a territorial dispute over these islands. The dispute is currently being adjudicated by an international panel of jurists and the area is quiet. However, in the recent past there have been credible reports of exchanges of gunfire between the disputants as well as gunfire directed at innocent vessels in the area.

3. Mariners should exercise caution and vigilance in these areas, consulting current warning information broadcasted by the

National Imagery and Mapping Agency (NIMA). (Dept. of State) (07 Dec 1995, revised 29 Oct 1997)

SPECIAL WARNING NO. 107

SRI LANKA

1. Sri Lanka has announced that entrance by unauthorized vessels into the waters of Palk Strait and the eastern territorial waters of Sri Lanka is prohibited because of increased acts of terrorism against shipping and Sri Lankan Naval Vessels. Sri Lanka requires that vessels in the vicinity contact the Sri Lankan Command (Tel. 941-42-30-19, Fax: 941-433-986) for authorism against shipping and Sri Lankan Naval Vessels. Sri Lanka requires that vessels in the vicinity contact the Sri Lankan Command (Tel. 941-42-30-19, Fax: 941-433-986) for authorism against shipping and Sri Lankan Naval Vessels. rization if they wish to enter these areas.

2. The government also has established a restrictive zone in coastal waters along the west coast from Kalptiya to

(8) SPECIAL WARNINGS. (Continued).

Colombo Port's southern backwaters. Written permission from the Sri Lankan Command is required for entry into these waters as well. Sri Lankan authorities have advised that they will fire on violators.

3. The U.S. Embassy in Colombo reports that between July and September 1997, at least three foreign flag merchant vessels were attacked by the Liberation Tigers of Tamil Eelam (LTTE). One vessel operating as a passenger ferry off Mannar on the northwest coast was set on fire and sunk. A second vessel departing north from the Jaffna Peninsula was hijacked, stripped of equipment, and its crew temporarily held by the terrorists. One crew member was killed during the hijacking. A third vessel was loading a mineral cargo off the northeast coast near Pulmoddai when it was attacked and at least five members of its crew

4. Any ant-shipping activity should be reported to NIMA NAVSAFETY, U.S. State Department, or the nearest U.S. Consulate. Refer to NIMA Pub. 117, Chapter 4, for instructions on filing a Ship Hostile Action Report (SHAR) or Anti-Shipping Activity Message (ASAM).

5. The publication of this notice is solely for the purpose of advising United States mariners of information relevant to navigational safety and in no way constitutes a legal recognition by the United States of the validity of any foreign rule, regulation or proclamation so published.

6. Cancel Special Warning No. 94. (Dept. of State) (01 Dec 1997)

SPECIAL WARNING NO. 108 **SUDAN**

1. In January 1996 The Department of State warned all U.S. Citizens against travel to Sudan due to ongoing violence within the country. Citing the U.S. government's suspension of it's diplomatic presence in Sudan, the department advised that its ability to provide emergency consular services would be severely limited. In August 1998 the State Department again warned U.S. citizens against travel to Sudan "following the recent U.S. air strikes against terrorist facilities and possible threats to Americans and American interests in that country." The latter warning (No. 98-041) remains in effect to date.

2. In November 1997 President Clinton issued Executive Order 13067 imposing a U.S. Trade Embargo against Sudan. Among

the prohibited activities are "any transaction by a United States person relating to transportation of cargo to or from Sudan." "United States Person" is defined as any U.S. citizen, permanent resident, entity organized under U.S. Law, or person in the United States. The embargo is still in effect.

3. Notwithstanding the pre-existing travel warning and ongoing U.S. Trade Embargo, the recent U.S. missile attack on a chemical plant in Khartoum has raised concerns of possible retaliation against U.S. citizens and/or commercial interests. U.S. Mariners are therefore urged to avoid Port Sudan or other Sudanese Ports. U.S. vessels are also advised to remain well clear of Sudanese Territorial waters in the Western Red Sea area. (Dept. of State) (20 October 1998)

SPECIAL WARNING NO. 109

ERITREA

- 1. The outbreak of fighting between Ethiopia and Eritrea may result in a threat to maritime interests in the ports of Assab and Massawa, Eritrea.
- 2. The Office of Naval Intelligence (ONI) reports Ethiopia has made cargo misappropriation claims amounting to \$127 million against the two Eritrean ports. ONI advises that during the long civil war which eventually resulted in Eritrean independence, cargo vessels arriving in these ports with weapons and other goods destined for the Ethiopian Government were raided and in some cases destroyed. Other shipping in the Red Sea was threatened and fired upon near what is now the Eritrean coast and in disputed waters between Yemen and what is now Eritrea.

 3. The State Department has warned U.S. citizens against travel to Eritrea and urged those already in Eritrea to depart the

4. U.S. Mariners are advised to avoid the ports of Assab and Massawa and to remain clear of Eritrean Territorial Waters until further notice.

(Dept. of State) (17 Feb 1999)

SPECIAL WARNING NO. 110

SERBIA-MONTENEGRO (FEDERAL REPUBLIC OF YUGOSLAVIA) AND CROATIA.

1. Serbia-Montenegro: The Department of State has issued a travel warning for Serbia-Montenegro (The Federal Republic of Yugoslavia). which reads in part: "The Department of State warns U.S. citizens against travel to Serbia-Montenegro and strongly urges U.S. citizens in Serbia-Montenegro to depart the country without delay due to the military intervention by members of the North Atlantic Treaty Organization (NATO). The U.S. Embassy suspended operations and all official Americans departed Serbia-Montenegro as of 23 March. There is no U.S. Diplomatic presence in Serbia-Montenegro to provide up-todate security assessments or consular assistance to U.S. citizens. Given recent history in the region, the possibility exists that U.S. citizens may be singled out in sporadic acts of violence, even though the Government of Serbia-Montenegro has offered assurances that no retaliatory actions would be taken against U.S. citizens." (Source: DOS, 03 Apr 99)

2. Croatia: cruise ship companies with port calls scheduled at the Croatian Ports of Dubrovnik or Rab have announced cancellation of those calls through at least the end of May. Some cruises scheduled to call later in the season have also been cancelled while other operators are evaluating the situation. There have been no specific threats against any cruise ships in the region, but some passengers have expressed reservation about such calls. In addition, a requirement to purchase Special War Risk Insurance for each call would impose a heavy financial burden on cruise ship operators whose fees have already been set.

(Source: ONI 312200Z Mar 99)

(8) SPECIAL WARNINGS. (Continued).

3. Serbia-Montenegro and Croatia: Hull War Risk Underwriters issued a notice of cancellation of standard War Risk Insurance clauses 29 March, 1999, to be effective seven days from 01 April, 1999. The War Risk Rating Committee, London, on 25 March, listed Yugoslavia (Serbia and Montenegro), but not Croatia War Risk Rates as "held covered" indicating that coverage can be obtained but only at individually quoted rates to be determined at time of coverage. (Source: ONI 312200Z Mar 99)

4. Serbia-Montenegro: The Federal Republic of Yugoslavia declared a State of War, and from 29 March, 1999 established a "War Regime of Navigation" in the Territorial Waters bounded by 41-50.5N 019-22.5E, 42-23.5N 018-32.3E, 42-15.0N 018-21.0E, 41-46.3N 019-02.4E, and 41-39.6N 019-16.1E. The Federal Republic of Yugoslavia introduced temporary restriction of navigation in the referenced area for all ships which do not obey the "War Regime of Navigation." The Federal Republic of Yugoslavia declared the zone 65 miles away from the referenced border of the Territorial Waters "Dangerous to Navigation." (Source: NAVAREA III Coordinator, Cadiz, Spain, 09 Apr 99)

5. The publication of this notice is solely for the purpose of advising United States Mariners of information relevant to navigational safety and in no way constitutes a legal recognition by the United States of the validity of any foreign rule regulation or

tional safety and in no way constitutes a legal recognition by the United States of the validity of any foreign rule, regulation or

proclamation so published. (Dept. of State) (15 Apr 1999)

SPECIAL WARNING NO. 111

SOMALIA.

1. Due to continuing conditions of armed conflict in Somalia and its territorial waters, mariners are advised to avoid the Port of Mogadishu and remain at least 50 nautical miles distant from the southeast Somali coast. Ships not specifically expected at the

Ports of Berbera and Bosaso should also avoid approaching the northern Somali coast.

2. In the past year there have been increasing reports of armed attacks on passing commercial vessels off the coast of Somalia. Fishing vessels, freighters and tankers have been fired upon by small speedboats with conventional weapons and rocket launchers. Ships have been hijacked, cargoes stolen, and crews held for ransom. Formerly confined to the port city of Mogad-

ishu, the attacks have since extended into coastal waters--recent hijackings have occurred as far as 40 miles off shore.

3. The Department of State has warned U.S. citizens against all travel to Somalia. Inter-clan and interfactional fighting can flare up with little warning, and kidnapping and other threats to foreigners can occur unpredictably in many regions. There is no national government in Somalia to offer general security or police protection for travelers. While parts of the north are relatively peaceful, including much of the self-declared "Republic of Somaliland," there is no U.S. Diplomatic presence in Somalia to provide up to determine the deterministic of somalizations.

lia to provide up-to-date security assessments or consular assistance to U.S. citizens.

4. Acknowledgment trailer: All U.S. Flag Merchant Ships acknowledge receipt of this message through a U.S. government radio station in the next scheduled AMVER Report with the following on the X-ray line "SW NO 111 RECEIPT ACK."

5. Cancel Special Warning Number 88. (Dept. of State) (12 May 1999)

SPECIAL WARNINGS FOOTNOTE.

In January 1977, DMA now NIMA commenced issuing warnings as NAVAREAS IV and XII broadcasts in addition to the HYDROLANT and HYDROPAC series. (Supersedes N.M. 1(8)99) (GIMM)

(9) TRADE WITH CUBA.

The President of the United States proclaimed an embargo February 7, 1962 on all trade with Cuba. Except as authorized by Department of Treasury regulations or license, all dealings in property in which Cuba or a Cuban national has an interest (including all financial transactions in Cuba) by any person subject to U.S. jurisdiction are prohibited. Unless otherwise authorized by the Department of Treasury, it is unlawful for any person subject to the jurisdiction of the United States to transport, import, or otherwise deal in or engage in any transaction with respect to any merchandise outside the United States if such import, or otherwise deal in or engage in any transaction with respect to any merchandise outside the United States if such merchandise: (1) is of Cuban origin; (2) is or has been located in or transported from or through Cuba; or (3) is made or derived in whole or part from any Cuban growth, produce, or manufacture. It is also unlawful for any person subject to U.S. jurisdiction to engage in any transportation of goods or merchandise from anywhere to Cuba unless the following conditions are met: (1) such transportation is licensed or otherwise authorized by Treasury; and (2) if U.S. goods or merchandise are involved, the exportation is itself licensed or otherwise authorized by the Department of Commerce under the provisions of the Export Administration Act of 1979, as amended. Licenses or authorizations to engage in such trade will not normally be granted. Certain exceptions exist for trade in informational materials. Unless licensed by Treasury, no vessel may enter a U.S. port for any purpose including bunkering or the acquisition of ship's stores if there are on board goods or passengers coming from, or going to, Cuba, or goods in which Cuba or a Cuban national has an interest. Unless licensed by Treasury, no vessel which enters a port or place in Cuba to engage in the trade of goods or services may, within 180 days of such vessel's departure from such port or place in Cuba, load or unload freight at any place in the United States. Persons who violate these restrictions may be subject to criminal or civil sanctions, or both, and vessels involved in such trade contrary to law may be subject to seimay be subject to criminal or civil sanctions, or both, and vessels involved in such trade contrary to law may be subject to seizure and forfeiture (reviewed November 12, 1998) (Repetition N.M. 1(9)99) (GIMM061/98)

(10) AUTOMATED MUTUAL-ASSISTANCE VESSEL RESCUE (AMVER).

The AMVER System, maintained and administered by the United States Coast Guard, with the cooperation of coast radio stations of many nations, is an international maritime mutual assistance program which provides important aid to the development and coordination of search and rescue (SAR) efforts in the offshore areas of the world. Vessels of all nations, on the high seas, are encouraged to voluntarily send movement (sailing) reports and periodic position reports to the AMVER Center located in Martinsburg, WV, via selected radio stations and coast earth stations. Information from these reports is entered into a computer database which is used to generate and maintain dead reckoning positions. Characteristics of vessels which are valuable for determining SAR capability are also entered into the computer from available sources of information. Information concerning the predicted location and SAR characteristics of each vessel estimated to be within the area of interest is made available, upon request, to recognized SAR agencies of any nation, or vessels needing assistance. Predicted locations are only disclosed for reasons related to maritime safety. Messages sent within the AMVER System are at no cost to the ship or owner. Benefits to shipping include: (1) improved chances of aid in emergencies, (2) reduced number of calls for assistance by vessels not favorably located to assist and (3) reduced time lost by vessels responding to calls for assistance. An AMVER participant

Instructions on participation in the AMVER System are usually available in the following languages: Chinese, Danish, Dutch, English, French, German, Greek, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, Spanish and Swedish. They are available from:

AMVER Maritime Relations, U.S. Coast Guard, Battery Park Bldg. New York, New York 10004-1499

Telephone: (212) 668-7762

e-mail: rkenney@batteryny.uscg.mil

Other sources for this information include U.S. Coast Guard Area and District Offices, Marine Inspection Offices and Captain of the Port Offices in major U.S. ports. Requests for instructions should state the language desired if other than English. And.

there is an "AMVER" web page on the Internet.

AMVER reports can be sent at no cost to the ship if sent via COMSAT-C using the AMVER/SEAS software and designated COMSAT earth stations. Necessary equipment includes an IBM PC or compatible with a 3.5 inch floppy disk drive and an Immarsat-C mobile terminal with a 3.5 inch floppy disk drive and external port. AMVER/SEAS software is available through COMSAT Mobile Communications or can be downloaded from the Internet through the AMVER web page or the National

Oceanic and Atmospheric Administration web page at: http://seas.nos.noaa.gov/seas/.

For AMVER participants bound for U.S. Ports there is an additional benefit. AMVER participation via messages which include the necessary information is considered to meet the requirements of the Code of Federal Regulations, Title 33, Parts 160.207 and 160.211 (33 CFR 160.207 and 211). These latter require, with certain exceptions, that the Master or Agent of each United States registered vessel and every foreign vessel arriving at a United States port (including the Great Lakes) from an offshore passage give advance notice to the U.S. Coast Guard at least 24-hours prior to arrival. The CFR should be constituted to the U.S. Coast Guard at least 24-hours prior to arrival. sulted to determine the exact current requirements, the exceptions and the conditions of constructive compliance. Where a harbor entrance serves more than one port, the AMVER message must include the first port of call. The AMVER Center forwards pertinent information to the appropriate Coast Guard officials. (Supersedes N.M. 1(10)99)

(USCG (G-OPR-2), Wash., D.C; PUB0015/1999)

(11) IMO MERCHANT SHIP SEARCH AND RESCUE (MERSAR) MANUAL AND INTERNATIONAL AERONAUTICAL AND MARITIME SEARCH AND RESCUE (IAMSAR) MANUAL.

The MERSAR Manual is being replaced by the International Aeronautical and Maritime Search and Rescue (IAMSAR) Manual, Volume III, Mobile Facilities. IAMSAR Manual, Volume III, Mobile Facilities, is intended to be carried aboard resof search and rescue that pertain to their own emergencies. The Manual, Sales Number IMO -962, can be purchased direct from IMO or from selected book sellers around the world as provided under "Publication Catalogue" on IMO web page: www.imo.org/. It is available in the English, French, Russian and Spanish languages.

(Supersedes N.M. 1(11)99)

(12) SPECIAL REPORTING INSTRUCTIONS FOR U.S. FLAG VESSELS, VESSELS CARRYING WAR RISK INSURANCE, AND CERTAIN OTHER DESIGNATED VESSELS (Formerly USMER Vessels).

According to a U.S. Maritime Administration regulation effective 1 August 1983, U.S. flag vessels and foreign-flag "War Risk" vessels must report and regularly update their voyages to the AMVER Center.

Who Must Report

A. U.S. flag vessels of one thousand gross tons or more, operating in foreign commerce.

B. Foreign-flag vessels of one thousand gross tons or more, for which an Interim War Risk Insurance binder has been issued under the provisions of Title XXI, Merchant Marine Act, 1936

Who May Report

Other merchant vessels, when approved by MARAD, whose owners may have chosen to participate and to have voyage information forwarded to MARAD. (Other merchant vessels may participate in AMVER, but information

(12) SPECIAL REPORTING INSTRUCTIONS FOR U.S. FLAG VESSELS, VESSELS CARRYING WAR RISK INSURANCE, AND CERTAIN OTHER DESIGNATED VESSELS (Formerly USMER Vessels). (Continued).

provided by them will be released only for safety purposes or to satisfy certain advance arrival notification requirements of Title 33, Code of Federal Regulations.)

When to Report

A. Sailing plans may be sent days or even weeks prior to departure, but no later than departure.

B. Departure Report must be sent as soon as practicable upon leaving port.

C. Position Report must be sent within twenty-four hours of departure, and subsequently no less frequently than every forty-eight hours until arrival.

D. Arrival Report must be sent immediately prior to or upon arrival at the Port of Destination.

E. Reports are to be sent during the Radio Officer's normal duty hours, but no later than the above schedule.

F. At the discretion of the vessel, reports may be sent more frequently than the above schedule, as, for example, in heavy weather or under other adverse conditions.

(Repetition N.M. 1(12)99)

(USCG (G-OPR-2), Wash., D.C.)

(13) URGENCY AND SAFETY SIGNALS.

1. The radiotelegraph urgency signal XXX (-..- -..-) repeated three times, and the radiotelephone urgency signal, which is the group of words PAN PAN (pronounced "PAWN" as in lawn) spoken three times, are provided for use in cases in which a ship making a call has a very urgent message to transmit concerning the safety of a ship, aircraft, or other vehicle, or the safety of a person, but it does not necessarily imply that the ship is in imminent danger or requires immediate assistance. The call has priority over all other communications except distress calls and it should be used in all urgent cases in which the sending out of the SOS or MAYDAY signal is not fully justified.

The urgency signal and message may be addressed to all stations or to a specific station. The urgency signal may also be used when the Master of a ship desires to issue a warning that circumstances are such that it may become necessary for him to send out the distress circulate a later stage. The message must be appealed as seen as any action in the later stage.

out the distress signal at a later stage. The message must be canceled as soon as any action is no longer necessary.

2. The radiotelegraph SAFETY signal TTT (- - -) repeated three times, and the radiotelephone SAFETY signal "SECURITE" (pronounced "SAY-CUR-I-TAY") spoken three times, are provided for reporting hazards to navigation or meteorological

warnings including dangers regarding ice, derelicts, tropical storms, etc.

3. Recent changes to the International Radio Regulations provided for these same signals to be used over satellite ship earth stations used in either voice or telex modes. NAVTEX is now required on Safety of Life at Sea Convention vessels. As a result, the Coast Guard no longer broadcasts safety message over MF Morse frequencies.

(Repetition N.M. 1(13)99)

(USCG (G-STC), Wash., D.C.)

(14) SUBMARINE EMERGENCY IDENTIFICATION SIGNALS AND HAZARD TO SUBMARINES.

1. U.S. submarines are equipped with signal ejectors which may be used to launch identification signals, including emergency signals. Two general types of signals may be used: smoke floats and flares or stars. A combination signal which contains both smoke and flare of the same color may also be used. The smoke floats, which burn on the surface, produce a dense, colored smoke for a period of fifteen to forty-five seconds. The flares or stars are propelled to a height of three hundred to four hundred feet from which they descend by small parachute. The flares or stars burn for about twenty-five seconds. The color of the smoke or flare/star has the following meaning:
(a) GREEN OR BLACK.-Used under training exercise conditions only to indicate that a torpedo has been fired or that the fir-

ing of a torpedo has been simulated.
(b) YELLOW.-Indicates that submarine is about to come to periscope depth from below periscope depth. Surface craft termi-

nate antisubmarine counter-attack and clear vicinity of submarine. Do not stop propellers.

(c) RED.-Indicates an emergency condition within the submarine and that it will surface immediately, if possible. Surface ships clear the area and stand by to give assistance after the submarine has surfaced. In case of repeated red signals, or if the submarine fails to surface within reasonable time, she may be assumed to be disabled. Buoy the location, look for submarine buoy and attempt to establish sonar communications. Advise U.S. Naval authorities immediately.

buoy and attempt to establish sonar communications. Advise U.S. Naval authorities immediately.

(d) WHITE.-Two white flares/smoke in succession indicates that the submarine is about to surface, usually from periscope depth (non-emergency surfacing procedure). Surface craft should clear the vicinity of the submarine.

2. Submarine Marker Buoy consists of a cylindrically shaped object about 3 feet by 6 feet with connecting structure and is painted international orange. The buoy is a messenger buoy with a wire cable to the submarine; this cable acts as a downhaul line for a rescue chamber. The buoy may be accompanied by an oil slick release to attract attention. A submarine on the bottom in distress and unable to surface will, if possible, release this buoy. If an object of this description is sighted, it should be investigated and U.S. Naval Authorities advised immediately.

3. Transmission of the International Distress Signal (SOS) will be made on the submarine's sonar gear independently or in conjunction with the red emergency signal as conditions permit.

4. Submarines may employ any or all of the following additional means to attract attention and indicate their position while submarines.

submerged:

Release of dye marker.

Ejection of oil.

Release of air bubble.

Pounding on the hull.

5. United States destroyer-type vessels in international waters will, on occasion, stream a towed underwater object at various speeds engaged in naval maneuvers. All nations operating submarines are advised that this underwater object in the streamed condition constitutes a possible hazard to submerged submarines.

(Repetition N.M. 1(14)99)

(GIMM)

(15) RULES, REGULATIONS AND PROCLAMATIONS ISSUED BY FOREIGN GOVERNMENTS.

The National Imagery and Mapping Agency, as a means of promoting maritime safety, includes in its publications rules, regulations, and proclamations affecting navigation as issued by foreign nations.

In this connection, it should be clearly understood that the publication of such material is solely for information relative to the navigational safety of shipping, and in no way constitutes a legal recognition by the United States of the international validity of any rule, regulation, or proclamation so published. While every effort is made to publish all such information, the National Imagery and Mapping Agency cannot assume any liability for failure to publish any particular rule, regulation, proclamation,

or the details thereof. (Repetition N.M. 1(15)99) (GIMM)

(16) WARNING-DANGER FROM SUBMARINE CABLES AND PIPELINES.

Submarine cables or pipelines pass beneath various navigable waterways throughout the world. Installation of new submarine cables and pipelines may be reported in the Notice to Mariners; their locations may or may not be charted. Where feasible, warning signs are often erected to warn the mariners of their existence. In view of the serious consequences resulting from damage to submarine cables and pipelines, vessel operators should take special care when anchoring, fishing or engaging in underwater operations near areas where these cables or pipelines may exist or have been reported to exist.

Certain cables carry high voltages; many pipelines carry natural gas under high pressure or petroleum products. Electrocution, fire or explosion with injury or loss of life or a serious pollution incident could occur if they are penetrated. Vessels fouling a submarine cable or pipeline should attempt to clear without undue strain. Anchors or gear that cannot be cleared should be slipped; no attempt should be made to cut a cable or pipeline. (Repetition N.M. 1(16)99)

(USCG (G-OPN-2), Wash., D.C.)

(17) CAUTION-CLOSE APPROACH TO MOORED OFFSHORE AIDS TO NAVIGATION.

Courses should invariably be set to pass these aids with sufficient clearance to avoid the possibility of collision. Errors of observation, current and wind effects, other vessels in the vicinity, and defects in steering gear may be, and have been, the cause of collisions. Experience shows that buoys cannot be safely used as leading marks to be passed close aboard, and should always be left broad off the course, whenever searoom permits.

It should be borne in mind that most large buoys are anchored to a very long scope of chain and, as a result, the radius of their swinging circle is considerable. The charted position is the approximate location. Furthermore, under certain conditions of wind and current, they are subject to sudden and unexpected sheers which are certain to hazard a vessel attempting to pass

Further warning on use of floating aids to navigation for position taking is contained in paragraph 1 of this Notice. When approaching an offshore light structure, large navigational buoy, or a station on a submarine site, on radio bearings, the risk of collision will be lessened by ensuring that the radio bearing does not remain constant. (Supersedes N.M. 1(17)99)

(USCG (G-OPN-2), Wash., D.C.; PUB0015/1999)

(18) PIPELINE LAYBARGES AND JETBARGES.

With the increased number of pipeline laying operations in the Gulf of Mexico and other areas, operators of all types of vessels should be aware of the dangers of passing close aboard, close ahead, or close astern of a jetbarge or pipelaying barge. Pipelaying barges and jetbarges usually move at 1/2 knot or less and have anchors which extend out approximately 3500-5000 feet in all directions, and may be marked by lighted anchor buoys. The exposed pipeline behind the pipelaying barge and the area in the vicinity of anchors are hazardous to navigation and should be avoided. The pipeline and anchor cables also represent a submerged hazard to havigation. It is suggested, if safe navigation permits, for all types of vessels to pass well ahead of the pipelaying barge or well astern of the jetbarge. The pipelaying barge, jetbarge, and attending vessels may be contacted on VHF-FM Channel 16 for passage instructions.

(CCGD EIGHT, New Orleans)

(19) REQUIRED REPORTING OF DAMAGED U.S. AIDS TO NAVIGATION.

It frequently occurs that aids to navigation are collided with, causing damage and displacement, or complete loss, without the knowledge of the Coast Guard District Commander. The replacement or repair of such aids is consequently often not made as promptly as desired. This situation results in diminished protection for marine traffic, and is attributable in large part to the failure of vessel operators to furnish notice of these collisions to the nearest local or district office of the U.S. Coast Guard, or to Coast Guard Headquarters, as required by law and regulation. The prompt submission of notice of any marine casualty or accident, including damage or destruction of aids to navigation, is required by the Marine Investigation Regulations, Section 4.05-20 of Title 46, Code of Federal Regulations, with penalty for noncompliance. (Repetition N.M. 1(19)99)

(USCG (G-OPN-2), Wash., D.C.)

(20) OIL POLLUTION-COMPLIANCE WITH THE CLEAN WATER ACT.

The Federal Water Pollution Control Act (FWPCA) prohibits the discharge of quantities of either oil or hazardous substance which may be harmful into or upon the navigable waters of the United States. This prohibition also applies to adjoining shorelines, waters of the contiguous zone, activities connected with the Outer Continental Shelf Lands Act (OSLA) and Deepwater Port Act of 1974, and such discharges which may affect natural resources belonging to the United States or under its exclusive management authority, including those resources under the Fishery Conservation and Management Act of 1976. Furthermore, in the event a spill does occur in violation of the Act the person in charge of a vessel or onshore or offshore facility is required to notify the Coast Guard as soon as he has knowledge of the spill. Such notification is to be by the most rapid means available to the National Response Center (1-800-424-8802, nationwide 24 hour number). (Repetition N.M.1(20)99)

(USCG (G-MOR), Wash.,D.C.)

(21) COMPLIANCE WITH THE ACT TO PREVENT POLLUTION FROM SHIPS.

The Act to Prevent Pollution from ships (33 U.S.C. 1901) implements into U.S. law the International Convention for the Prevention of Pollution from Ships, as modified by the Protocol of 1978 (MARPOL 73/78). Under the Act, the U.S. Coast Guard is responsible for inspecting and certifying that U.S. vessels meet the applicable requirements. Annex I of MARPOL 73/78 deals with oil and oily waste, Annex II with hazardous chemicals and other substances referred to as Noxious Liquid Substances (NLS), and Annex V deals with the prevention of marine pollution by plastics and other garbage produced during ves-

Annex I of MARPOL 73/78 is applicable to oceangoing tankers over 150 gross tons and all other oceangoing ships over 400 gross tons. The MARPOL 73/78 requirements include oily waste discharge limitations, oily-water separating equipment, montoring and alarm systems for discharges from cargo areas, cargo pump rooms and machinery space bilges. Ships to which Annex I MARPOL 73/78 is applicable are also required to have an International Oil Pollution Prevention (IOPP) Certificate verifying that the vessel is in compliance with the requirements of MARPOL 73/78 and that any required equipment is on board and operational. Vessels must also

maintain an Oil Record Book recording all oil transfers and discharges. The Oil Record Book is available from the USCG Supply Center Baltimore or any local Captain of the Port.

Annex II of MARPOL 73/78 is applicable to oceangoing vessels and non-self propelled oceangoing ships which carry Noxious Liquid Substances (NLS) in bulk. The Annex II requirements include discharge restrictions for various classes of cargo residues; the maintenance of a Cargo Record Book for recording all NLS cargo and residue transfers and discharges; and a Procedures and Arrangements Manual describing the correct procedures for off loading and prewashing cargo tanks.

Annex II NI S cargoes are classified in one of four categories A B C or D Category A is the most hazardous to the environ-

Annex II NLS cargoes are classified in one of four categories, A,B,C, or D. Category A is the most hazardous to the environment. Category A and other substances which tend to solidify in tanks must be prewashed in port under the supervision of a Prewash Surveyor prior to departure from the off loading terminal. Vessel discharges must be underwater when discharge at sea is allowed. Tanks which carry Category B and C NLS must be tested to ensure that after tank stripping only a minimal amount of residues will remain. Reception facilities must be able to assist in cargo stripping operations by reducing back presume during the final stages of off loading. sure during the final stages of off loading.

Terminals and ports receiving oceangoing tankers, or any other oceangoing ships of 400 GT or more, carrying residues and mixtures containing oil, or receiving oceangoing ships carrying NLSs, are required to provide adequate reception facilities for the wastes generated. Coast Guard Captains of the Port issue a Certificate of Adequacy to terminals or ports to show that they are in compliance with federal reception facility requirements. An oceangoing tanker or any other oceangoing ship of 400 GT or more required to retain oil or oily residues and mixtures on board and an oceangoing ship carrying a Category A, B or C NLS cargo or NLS residue in cargo tanks that are required to be prewashed, may not enter any port or terminal unless the port

or terminal holds a valid Certificate of Adequacy or unless the ship is entering under force majeure.

Annex V is applicable to all recreational, fishing, uninspected and inspected vessels, and foreign flag vessels on the navigable waters and all other waters subject to the jurisdiction of the United States, out to and including the Exclusive Economic Zone

(200 miles).

Annex V prohibits the disposal of any and all plastic material from any vessel anywhere in the marine environment. Dunnage, lining and packing materials which float may be disposed of beyond 25 miles from the nearest land. Other garbage that will not lining and packing materials which float may be disposed of beyond 25 miles from the nearest land. Other garbage that will not float may be disposed of beyond 12 miles of land, except that garbage which can pass through a 25mm mesh screen (approximately I square inch) may be disposed of beyond 3 miles. Dishwater is not to be considered garbage within the meaning of Annex V when it is the liquid residue from the manual or automatic washing of dishes or cooking utensils. More restrictive disposal regimes apply in waters designated "Special Areas." This Annex requires terminals to provide reception facilities at ports and terminals to receive plastics and other garbage from visiting vessels.

MARPOL 73/78 requires the immediate reporting of any unpermitted discharges of oil or other substances. The civil penalty for each violation of MARPOL 73/78 is not more than \$25,000 per day. The criminal penalty for a person who knowingly violates the MARPOL Protocol, or the regulations (33 CFR 151, 155, 157, and 158), consists of a fine of not more than \$250,000 and/or imprisonment for not more than 5 years; U.S. law also provides criminal penalties up to \$500,000 against organizations which violate MARPOL.

which violate MARPOL.

International Safety Management (ISM) Code Implementation: Compliance with the ISM Code is mandatory for passenger ships, and oil and chemical tankers, gas carriers, bulks carriers, and cargo high speed craft over 500 Gross Ton engaged on international voyages. Other cargo ships and MODUs over 500 GT must comply by July 1, 2002. To demonstrate compliance, vessels must present copies of approved Documents of Compliance and Safety Management Certificates to Coast Guard Port State control Boarding Officers during routine compliance examinations. ISM compliance demonstrates that vessel operators have safety and environmental policies, emergency response procedures, designated accident and code non-conformity reports. ing procedures, and on board maintenance and operating manuals. If inbound vessels are not in compliance with ISM Code after the implementation dates of July 1, 1998 or 2002, they will be denied entry into U.S. waters. (Supersedes N.M. 1(21)99) (USCG (G-MSO, G-MOC), Wash., D.C.; PUB0015/1999)

(22) PACKAGED MARINE POLLUTANTS-COMPLYING WITH MARPOL ANNEX III.

On October 1, 1993, new regulations under the Hazardous Materials Transportation Act (HMTA) took effect, implementing MARPOL Annex III in the United States. MARPOL Annex III deals with the prevention of marine pollution by harmful sub-

stances in packaged form.

Annex III of MARPOL 73/78 applies to all ships carrying harmful substances in packaged form. Annex III provides standards for stowage, packing, labeling, marking, and documentation of substances identified as marine pollutants in the International Maritime Dangerous Goods Code (IMDG Code). On 5 November 1992, the U.S. Research and Special Programs Administration (RSPA) amended the Hazardous Materials Regulations (HMR, 49 CFR 100-177) to list and regulate these marine pollutants in all modes of transportation. Under the HMR, marine pollutants are listed in a separate appendix, and a new "marine pollutant mark" will be required for those materials. The marine pollutant mark is used in addition to any existing labels or placards designating a hazardous substance.

Marine pollutants are divided into two classes: marine pollutants and severe marine pollutants. A solution or mixture containing 10% or more of any marine pollutant falls into the class of "marine pollutant." The "severe marine pollutant" class consists of those materials that contain 1% or more of any specified "severe marine pollutant" substance. Marine pollutants that do not meet the criteria for any other hazard class are transported as an environmentally hazardous substance, solid or liquid, N.O.S.

(class 9)

(Repetition N.M. 1 (22)99)

(USCG (G-MSO), Wash., D.C.)

(23) POLLUTION-OCEAN DUMPING.

The Marine Protection Research and Sanctuaries Act of 1972, as amended (33 USC 1401 et seq.), regulates the dumping of all material, except fish waste, into ocean waters. Radiological, chemical and biological warfare agents and other high level radioactive wastes are expressly banned from ocean disposal. The Army Corps of Engineers issues permits for the disposal of dredged spoils; the Environmental Protection Agency is authorized to issue permits for all other dumping activities. Surveillance and enforcement to prevent unlawful transportation of material for dumping or unlawful dumping under the Act has been assigned to the U.S. Coast Guard. The Act provides civil penalties of up to \$50,000 and criminal penalties of up to \$50,000 and/or one year imprisonment.

(Repetition N.M. 1(23)99)

(USCG (G-MSO), Wash., D.C.)

(24) WARNING-POSSIBLE DANGER FROM UNLABELED INTERMODAL CONTAINERS AND DRUMS.

1. With the many exotic chemicals being transported in inter-modal freight containers and in drums as deck cargo, increasingly more reports are received regarding the loss overboard of these potentially dangerous cargo-carrying units. Empty containers and drums may contain residues which may be extremely hazardous to touch or smell, and vapors emanating from

these packages may be explosive.

2. When encountering derelict inter-modal containers and drums, whether afloat or from the sea bottom, the dangers listed above should be considered. Identifying labels will give adequate warning, but containers and drums are more likely to be found with caution labels washed away. All inter-modal freight containers have unique identifying numbers, which should be included in any sighting report if visible from a safe distance. Avoid direct contact and notify U.S. Coast Guard of any sightings in U.S. coastal waters (24 HR TOLL FREE reporting number 1-800-424-8802), or government authorities of the nearest port state if sighting is near any foreign shores. (Supersedes N.M. 1(24)99)

(USCG (G-MOC), Wash., D.C.; PUB0015/1999)

(25) REPORTING OF DANGERS TO NAVIGATION.

Mariners will occasionally discover uncharted shoals, malfunctions of important navigational aids or other dangerous situations that should be made known to other navigators. Those items that can be classified as urgent should be reported by any rapid means to the closest responsible charting authority. The general criterion for important data is "that information, without which, a mariner might expose his vessel to unnecessary danger." Reports to the U.S. Coast Guard and to foreign authorities can be made via radio using voice, SITOR and Digital Selective Calling (DSC), via TELEX, or via satellite using telephone and fax. Reports to NIMA in Bethesda, MD can be made via AUTODIN message, TELEX, telephone, fax and e-mail.

Guidance in preparing reports of dangers to navigation and specific radio frequencies, addresses and telephone numbers are contained in NIMA Pub. 117, Radio Navigational Aids. Reports should be brief, but must contain:

What - Description of danger When - GMT and date

Where - Latitude and Longitude (Reference chart in use.)

Who - Reporting vessel and observer

Additionally, mariners are requested to notify NIMA of discrepancies in charts and publications, using the Marine Information Report and Suggestion Sheet found in the back of each Notice to Mariners.. (Supersedes N.M. 1(25)99) (PUB0015/1999)

(26) VESSEL BRIDGE-TO-BRIDGE RADIOTELEPHONE REGULATIONS.

APPLICATION: These regulations contain watch and equipment requirements for the Vessel Bridge-to-Bridge calling channel (VHF-FM Channel 13) (156.65 MHz) or (VHF-FM Channel 67)(156.375 MHz) where applicable. The regulations apply to the following vessels (including recreational, uninspected, and military vessels) while underway on the navigable waters of the U.S. (e.g. on internal rivers and tributaries and seaward out to three nautical miles off the coast):

(1) Power-driven vessels 20 meters or greater in length; (2) Vessels 100 gross tons or more carrying one or more passengers for hire; (3) Towing vessels 26 feet or more in length while towing; and (4) Dredges.

GREAT LAKES: Vessels operating on the Great Lakes are exempt from the Vessel Bridge-to-Bridge Regulations, but must comply with the provisions of "The Agreement Between the United States of America and Canada for Promotion of Safety on the Great Lakes by Means of Radio, 1973" (47 CFR 80.951-80.971).

WATCH ON CHANNEL 13: The operation of whomever is designated to pilot the vessel, must maintain a listening watch on the designated of the United States. The designated frequency is VHE FM.

the designated frequency while underway on the navigable waters of the United States. The designated frequency is VHF-FM Channel 13 (except on portions of the lower Mississippi River where VHF-FM Channel 67 (156.375) is the designated frequency). The person maintaining the watch must also be able to communicate in English.

WATCH ON CHANNEL 16: FCC regulations (47 CFR 80.148 and 80.305) require vessels subject to the Vessel Bridge-to-

Bridge Radiotelephone Regulations to keep a continuous watch on VHF-FM Channel 16 (156.8 MHz) (International Distress

and Calling Channel) while underway, except when transmitting or receiving traffic on other VHF-FM channels (e.g. vessels may switch to other channels to pass traffic, listen to weather reports, etc.) or when participating in and monitoring a Vessel Traffic Service (VTS) Channel.

SMALL CRAFT: Vessels not subject to the Vessel Bridge-to-Bridge Regulations generally are not required to have a VHF-FM radio onboard. However, such voluntary vessels must maintain a watch on Channel 16 whenever the radio is operating (i.e.

energized) and is not being used to communicate on other channels.

EQUIPMENT REQUIRED: Vessels subject to the regulation must have two separate VHF-FM radios/receivers. One radio is required by these regulations in order to maintain a continuous watch on Channel 13. In addition, to meet FCC regulations (47 CFR 80.148) a separate VHF radio is required. This second radio is required in order to maintain a watch on Channel 16 (Distress, Safety and Calling) or a separately assigned (VTS) Channel or to communicate on such other channels as required (e.g.

port/bridge operations, weather, working channels). This requirement can be met with: a single VHF FM radio, provided that it has two separate receivers; two multichannel VHF-FM radios; or a single channel VHF-FM radio set to Channel 13, and a separate multi-channel receiver (multi-channel receiver). channel VHF-FM radios should be capable of transmitting and receiving on Channels 13, 16, 22A, and 67 (near New

Orleans))

Note: A single VHF-FM radio capable of scanning, or sequential monitoring (often referred to as "dual watch" capability)

will not meet the requirements for both radios.

PORTABLE RADIOS (hand held) may be used to meet the bridge-to-bridge requirements. However, this radio must be permanently associated with the vessel and it must have a connection for an external antenna (FCC regulations 47 CFR 80.1017). Foreign vessels entering into U.S. waters may use portable equipment, not permanently associated with the vessel, that is brought aboard by the pilot. However, foreign vessels transiting U.S. waters without a pilot on board must still meet the provisions above

RECENT CHANGES: In August 1992, these regulations were modified. The substantive changes were: (a) the regulations now apply to all power-driven vessels 20 meters (65.5 ft.) in length or over; (b) vessels subject to the regulations must be capable of transmitting and receiving on Channel 22A (157.1 MHz) Coast Guard Marine Information and Communications Channel 22A (157.1 MHz) Coast Guard Marine Information and Communications Channel 22A (157.1 MHz) Coast Guard Marine Information and Communications Channel 25 (200 MHz) and the laws of the la nel; (c) vessels subject to the regulations operating in a designated area on the lower Mississippi River and its approaches are required to monitor Channel 67 (156.375 MHz) instead of Channel 13. Vessels entering (VTS) Puget Sound (Seattle) must be capable of transmitting and receiving on VTS Channel 5A (156.250 MHz). The addition of the letter "A" to the channel number indicates that operations on this channel in the United States are different than international operations on this channel. In the United States, stations transmit and receive on the same frequency on these channels. Internationally, stations transmit on one frequency and receive on another, different frequency on these channels. Operators of vessels subject to the Vessel Bridge-to-Bridge Radiotelephone Regulations who plan to operate in U.S. waters MUST have radios capable of operating on the specified "A" channels.

MORE INFORMATION: The Vessel Bridge-to-Bridge Radiotelephone Regulations can be found in the Coast Guard publication Navigation Rules: International-Inland, (COMDTINST M16672.2D). For a copy of the changes or questions write to: Commandant (G-MWV-3), U.S. Coast Guard, 2100 2nd Street S.W., Washington, D.C. 20593-0001. Tel: (202) 267-0574. You may also submit to our website http://www.uscg.mil/vtm/pages/rules.htm questions concerning the Vessel Bridge to Bridge

Radiotelephone Regulations. (Supersedes N.M. 1(26)99)

(USCG (G-MWV-3), Wash., D.C.; PUB0015/1999)

(27) SEISMIC SURVEYS.

Details of seismic surveys may be broadcast to mariners via HYDROLANT, HYDROPAC, NAVAREA IV and NAVAREA XII broadcast systems. Surveys can be conducted without prior notification or broadcast warnings.

Survey vessels may operate alone or in company with other surface vessels or submersibles. Survey vessels may be towing

cables in excess of 2 miles astern. Cables may be marked by buoys and may be towed on the surface or submerged.

During a survey, repeated shock waves are created by using explosive charges, compressed air, mechanical vibrators or by electrical means at any level from the bottom to the surface. Vessels surveying may be underway but sometimes are stopped for extended periods.

Seismic survey vessels which are unable to maneuver are required to carry the lights and signals described in Rule 27 of

International Regulations for Preventing Collisions at Sea. These vessels should be given a wide berth.

Charges may be contained in a variety of cylinders, tubes, or bags which may not be marked as dangerous. No attempt to recover such items should be made. Any suspicious charge-like containers inadvertently taken aboard by trawls or any other means should be carefully handled and jettisoned immediately if possible. (Repetition N.M. 1(27)99) (GIMM)

(28) UNITED STATES-CAUTION REGARDING SUBMARINE OPERATIONS.

Boundary limits and designations of submarine operating areas are shown on the charts in magenta or purple lines. As submarines may be operating in these areas, vessels should proceed with caution. During torpedo practice firing, all vessels are cau-

tioned to keep well clear of naval target vessels flying a large red flag where it may be seen.

During the past a number of potentially dangerous incidents have occurred. Ships have entered Fleet Operating Areas in which UDT (Underwater Demolition Teams) or SEAL (Sea, Air, and Land) Teams were conducted in a specific area assigned for that purpose. These submerged operations ordinarily involve transferring swimmers in and out of a submarine while submerged. In this situation, movements of the submarine must be restricted in course, speed, and depth. Furthermore, emergency surfacing could prove hazardous and result in loss of life to swimmers. Therefore, when conducting operations of this type the submarine and swimmer detachment are relatively immobile and are helpless to evade approaching ships passing through their area. There is also a real danger that a well-intentioned

ship, unaware of these operations, might turn in the submarine's direction to investigate rubber raft, swimmers, or submarine

periscope

Notice of date and time prior to any subsurface operations should be provided to Commander Submarine Force, U.S. Atlantic Fleet, 7958 Blandy Rd., Norfolk, VA 23551-2492.

(Repetition N.M. 1(28)99)

(GIMM)

(29) SPECIAL RULES WITH RESPECT TO ADDITIONAL STATION AND SIGNAL LIGHTS FOR NAVY SHIPS.

1. Man overboard lights.-Naval vessels may display, as a means of indicating man overboard, two pulsating, all around red lights in a vertical line located on a mast from where they can best be seen.

2. Yard arm signalling lights.-Naval vessels may display, as a means of visual signalling, white all around lights at the end of

the yardarms. These lights will flash in varying sequences to convey the intended signal.

3. Aircraft warning lights.-Naval vessels may display, as a means of indicating the presence of an obstruction to low flying aircraft, one or two all around red lights on each obstruction.

4. Underway replenishment contour lights.-Naval vessels may display, as a means of outlining the contour of the delivery ship during night time underway replenishment operations, red or blue lights at deck edge extremities. These lights are being con-

verted to blue, vice red, therefore either color may be seen until conversion is complete.

5. Minesweeping station keeping lights.-Naval vessels engaged in minesweeping operations may display, as an aid in maintaining a prescribed interval and bearing, two white lights in a vertical line visible from 070 through 290 degrees relative.

6. Submarine identification light.-Submarines may display, as a distinctive means of identification, an intermittently flashing

or Submatine Identification light.-Submatines may display, as a distinctive heads of Identification, an interinitentry hashing amber beacon located where it can best be seen, as near as practicable, all around the horizon.

7. Special operations lights.-Naval vessels may display, as a means of coordinating certain operations, a revolving beam colored red, green or amber, located on either yardarm or mast platform from where it can be seen all around the horizon.

8. Convoy operations stern light.-Naval vessels may display, during periods of convoy operations, a blue light located near the stern, with the same characteristics as, but in lieu of, the normal white stern light.

9. We lead the proof of the proof of

9. Wake illumination light.-Naval vessels may display a white light located near the stern to illuminate the wake.

10. Flight operations lights.-Naval vessels engaged in night flight operations may display various arrangements of light systems containing combinations of different colored lights as a means of assisting in the launch and recovery of aircraft and

enhancing flight safety. These light systems will be located at various points on the vessels, depending on the vessel type and nature or the flight operations being conducted.

11. Amphibious operations lights.-Naval vessels engaged in night amphibious operations may display various arrangements of light systems containing combinations of different colored lights as a means of assisting in the launch and recovery of assault craft and enhancing the safety of the amphibious operation. These light systems will be located at various points on the vessels,

depending on the vessel type and the nature of the amphibious operations being conducted.

12. Minesweeping polarity signal lights.-Naval vessels engaged in minesweeping operations may display either a red or green

light on each side of vessel.

- 13. Replenishment-at-sea floodlights.-Naval vessels engaged in replenishment-at-sea operations may display various arrangements of floodlights of different colors for general illumination of equipment, work areas, and cargo being transferred between ships. These lights will be located at various points on the vessels, depending on the vessel type and location of the replenishment-at-sea handling areas.
- 14. Replenishment-at-sea cargo transfer signal lights.-Naval vessels engaged in replenishment-at-sea operations may display one or more red light signal devices on the delivery side of the vessels. These devices display various combinations of lights to indicate type of cargo being transferred.

15. Replenishment-at-sea truck light.-Naval vessels engaged in replenishment-at-sea operations may display one or more red all-round light(s) located on a mast to assist the receiving vessel in approaching the delivery vessel.

16. Replenishment-at-sea lights.-Naval aircraft carriers and similar type vessels may display two all-round lights installed along the forward starboard flight deck edge to indicate the fore-and-aft axis when the aircraft carrier or similar type vessel is the delivery vessel.

(Repetition N.M. 1(29)99)

(GIMM)

(30) UNITED STATES NAVAL VESSELS-NAVIGATIONAL LIGHT WAIVERS-DISTINCTIVE LIGHTS AUTHO-**RIZED FOR NAVAL VESSELS.**

1. All ships are warned that, when U.S. Naval vessels are met on the high seas or on navigable waters of the United States during periods when navigational lights may be displayed; certain navigational lights of some naval vessels may vary from the requirements of the Regulations for Preventing Collisions at Sea, 1972, and rules applicable to the navigable waters of the United States, as to number, position, range of visibility or arc of visibility. These differences are necessitated by reasons of military function or special construction of the naval ships. An example is the aircraft carrier where the two masthead lights are considerably displaced to starboard from the center or keel line of

the vessel when viewed from ahead. Certain other naval vessels cannot comply with the horizontal separation requirements of the masthead lights, and the two masthead lights on even larger naval vessels, such as some cruisers, will thus appear to be crowded together when viewed from a distance. Other naval vessels may also have unorthodox navigational light arrangements

or characteristics when seen either underway or at anchor.

2. Naval vessels may also be expected to display certain other lights. These lights include, but are not limited to, different colored recognition light signals, and aircraft landing lights. These lights may sometimes be shown in combination with naviga-

3. During naval maneuvers, naval ships, alone or in company, may also dispense with showing any lights, though efforts will

be made to display lights on the approach of shipping

4. Naval vessels, except for aircraft carrier types (CV, CVN, AVT, LHA, LHD MCS and LPH), may dispense with showing the masthead lights during operations or maneuvers in which the vessels are restricted in ability to maneuver. (Repetition N.M. 1(30)99) (GIMM)

(31) TRAFFIC SEPARATION SCHEMES AND AREAS TO BE AVOIDED.

To increase the safety of navigation, particularly in converging areas of high traffic density, routes incorporating traffic separation have been adopted by the IMO in certain areas of the world. In the interest of safe navigation, it is recommended that through traffic use these schemes, as far as circumstances permit, by day and by night and in all weather conditions.

An area to be avoided is a routing measure comprising an area within defined limits, in which either navigation is particularly

hazardous or it is exceptionally important to avoid casualties, and which should be avoided by all ships, or certain classes of

The International Maritime Organization (IMO) is recognized as the only international body responsible for establishing and recommending measures on an international level concerning ships' routing. In deciding whether or not to adopt or amend a traffic separation scheme, IMO will consider whether the scheme complies with the design criteria for traffic separation schemes and with the established methods of routing. IMO also considers whether the aids to navigation proposed will enable mariners to determine their position with sufficient accuracy to navigate the scheme in accordance with Rule 10 of the International Regulations for Preventing Collisions at Sea (72 COLREGS).

General principles for navigation in traffic separation schemes are as follows:

1. A ship navigating in or near a traffic separation scheme adopted by IMO shall in particular comply with Rule 10 of the 72 COLREGS to minimize the development of risk of collisions with another ship. The other rules of the 72

COLREGS apply in all respects, and particularly the steering and sailing rules if risk of collision with another ship is deemed

2. Traffic separation schemes are intended for use by day and by night in all weather, ice-free waters or under light ice conditions where no extraordinary maneuvers or assistance by icebreaker(s) is required.

3. Traffic separation schemes are recommended for use by all ships unless stated otherwise. Bearing in mind the need for adequate underkeel clearance, a decision to use a traffic separation scheme must take into account the charted depth, the possibility of changes in the sea-bed since the time of last survey, and the effects of meteorological and tidal conditions on water

4. A deep water route is an allied routing measure primarily intended for use by ships which require the use of such a route because of their draft in relation to the available depth of water in the area concerned. Through traffic to which the above consideration does not apply should, if practicable, avoid following deep water routes. When using a deep water route mariners

should be aware of possible changes in the indicated depth of water due to meteorological or other effects.

5. The arrows printed on charts merely indicate the general direction of traffic; ships should not set their courses strictly along

6. Vessels should, so far as practicable, keep clear of a traffic separation line or separation zone.

Vessels should avoid anchoring in a traffic separation scheme or in the area near its termination.

8. The signal "YG" meaning "You appear not to be complying with the traffic separation scheme" is provided in the International Code of Signals for appropriate use.

NOTE.-Several governments administering traffic separation schemes have expressed their concern to IMO about the large number of infringements of Rule 10 of the 72 COLREGS and the dangers of such contraventions to personnel,

vessels and environment. Several governments have initiated surveillance of traffic separation schemes for which they are responsible and are providing documented reports of vessel violations to flag states. As in the past, the U.S. Coast Guard will investigate these reports and take appropriate action. Mariners are urged to comply at all times with the 72 COLREGS and, in particular, Rule 10 when operating in or near traffic separation schemes.

9. Notice of temporary adjustments to traffic separation schemes for emergencies or for accommodation of activities which would otherwise contravene Rule 10 or obstruct navigation may be made in Notices to Mariners. Temporary adjustments may

be in the form of a precautionary area within a traffic lane, or a shift in the location of a lane. 10. The IMO approved routing measures which affect shipping in or near U.S. waters are:

(31) TRAFFIC SEPARATION SCHEMES AND AREAS TO BE AVOIDED. (Continued).

TRAFFIC SEPARATION SCHEMES

In the Approaches to Portland, Maine
In the Approaches to Chesapeake Bay
In the Approaches to Boston, Massachusetts
In the Approaches to Galveston Bay
In the Approaches to Narragansett Bay, Rhode
Off San Francisco
Island and Buzzards Bay, Massachusetts
In the Santa Barbara Channel
Off New York
In the Approaches to Los Angeles-Long Beach
Off Delaware Bay
In the Strait of Juan de Fuca
In Puget Sound and its Approaches
In Prince William Sound, Alaska

AREAS TO BE AVOIDED

Off Washington Coast In the region of Nantucket Shoals At Louisiana Offshore Oil Port (LOOP) in the Gulf of Mexico In the region of the Northwest Hawaiian Islands Adjacent to Florida Keys In the region of the Channel Islands, California (Repetition N.M. 1(31)99)

(USCG (G-MWV-3), Wash., D.C.; PUB0015/1999)

(32) FIRING DANGER AREAS.

Firing and bombing practice exercises take place either occasionally or regularly in numerous areas established for those purposes along the coast of practically all maritime countries.

In view of the difficulty in keeping these areas up to date on the charts, and since the responsibility to avoid accidents rests with the authorities using the areas for firing and/or bombing practice, these areas will not as a rule be shown on NIMA charts. National Ocean Service Charts show firing and bombing practice areas as defined by Code of Federal Regulations (Title 33, Part 334) in United States waters.

Any permanent aid to navigation that may be established to mark a danger area, or any target, fixed or floating, that may constitute a danger to navigation, will be shown on the appropriate charts.

Warning signals, usually consisting of red flags or red lights, are customarily displayed before and during the practice, but the absence of such warnings cannot be accepted as evidence that a practice area does not exist. Vessels should be on the lookout for local warnings and signals, and should, whenever possible, avoid passing through an area in which practice is in progress, but if compelled to do so should endeavor to clear it at the earliest possible moment.

(Repetition N.M. 1(32)99)

(33) LORAN INFORMATION.

There are two systems of LORAN currently in use. These are LORAN-A, formerly known as standard LORAN and in use since 1942, and LORAN-C, which was first established in 1958. LORAN-A operates in the 1.8-2.0 MHz band obtaining a time difference reading or line of position by matching the edge of the pulse envelopes of the signal transmissions from a master and slave station. LORAN-C, a logical extension of LORAN-A, is a long-range hyperbolic radionavigation system of high accuracy which processes a pulsed LF (100 KHz) signal by both the time difference and phase comparison methods.

LORAN-A

The only LORAN-A stations in operation are in Japanese and Chinese waters. The rates are: CHINA-1L0,1L1, 1L4, 1L5, 1S1, 1S2, 1S3, 1S4, 1S6 JAPAN-2S3, 2S4, 2S5, 2S6, 2S7, 2H5, 2H6, 2S0, 2S2, 2S1

LORAN-C

LORAN-C has been selected by the Federal Government as the Civil Navigation System for the U.S. Coastal Confluence Zone

LORAN-C Correction Publications and nautical chart coverage are found in the National Imagery and Mapping Agency Catalog of Maps, Charts, and Related Products, Part 2-Hydrographic Products, Nautical Charts and Publications (NIMA Stock Number CATP2V01U). Tabular information for LORAN-C Rate Publications is no longer available.

(Repetition N.M. 1(33)99)

(34) ENDANGERED SPECIES (WHALES AND SEA TURTLES) EASTERN SEABOARD.

NOAA's National Marine Fisheries Service, Office of Protected Resources has advised that several species of endangered whales and endangered and threatened sea turtles inhabit areas along the Eastern Seaboard. Among these is the northern right whale, the world's most endangered large whale species, and collisions with ships are a significant source of mortality in this species. Collisions with whales can also result in significant damage to vessels, most commonly involving bent shafts or damaged propellers. Sea turtles are also susceptible to vessel collision because they surface to breathe and may rest at or near the surface. Nearshore habitat as well as natural and maintained channels may provide food, shelter and migration corridors to sea turtles. Sea turtles also associate with offshore oceanographic fronts and the warm water of the Gulf Stream.

Right whales are vulnerable to vessel collisions. As discussed below, right whales are seasonally abundant in waters off Florida, Georgia, New England and Canada. Right whale advisories and sighting locations are available for these areas via Coast Guard Broadcast Notice to Mariners, NAVTEX and other media.

There are about 300 northern right whales in the North Atlantic, and the species is listed as endangered under the Endangered Species Act. Right whales are highly vulnerable to vessel collisions because they can be difficult to spot, often do not move out of the way of approaching ships, and mate, rest, feed, and nurse their young at the surface.

Right whales occur along the east coast from calving areas off southern Georgia and northern Florida to feeding and mating areas off Massachusetts, in the Gulf of Maine and Bay of Fundy. In the Northeast United States, right whales occur seasonally in Cape Cod Bay (peak season: January through April), the Great South Channel (peak season: April through June), Stellwagen Bank (peak season: January through April), Jeffreys Ledge (peak season: July through mid-December), and the Bay of Fundy (Grand Manan Basin) (peak season: June through December). The first two areas are Federally-designated right whale critical habitats. Stellwagen Bank and Jeffreys Ledge are located in the Federally-designated Gerry E. Studds Stellwagen Bank National Marine Sanctuary. The Grand Manan Basin is a Canadian whale conservation area. Other whale species are present in spring and summer. Juvenile humpback and fin whales frequent near shore waters of the mid-Atlantic year round and are particularly abundant off Virginia and North Carolina in winter. Other whale species are present primarily in spring and summer. Sea turtles occur in coastal waters of Maine through Virginia in summer and fall (May through November).

In the Southeast United States, coastal waters off Georgia and northeastern Florida is the only known calving area for right whales. This area is a Federally-designated right whale critical habitat. The calving season is generally December through March. In March and April, right whales accompanied by calves migrate northward, often within 20 miles of the coast. Juvenile humpback and fin whales frequent near shore waters of the mid-Atlantic year round and are particularly abundant off Virginia and North Carolina during winter. Sea turtles occur year round from North Carolina through Florida; however, they are especially abundant during the spring and summer, just prior to and during the mating season.

Vessel operators should be particularly alert to avoid hitting or disturbing right whales. In seasons and in areas that right whales may occur, vessel operators should maintain a sharp lookout. Field identification cues include a broad back with no dorsal fin, irregular bumpy white patches (callosities) on the head, and a distinctive two-column V-shaped blow. They have paddle-like flippers nearly as wide as they are long, and a broad, deeply notched tail. Right whales reach lengths of 45 to 55 feet and are black in color.

Two of the best documented ship strikes involved whales being struck and killed by vessels steaming at 15 knots. One vessel was steaming in clear weather and calm seas, just before dusk, and well off the Mid-Atlantic coast, when a small group of whales surfaced about 50 yards off the starboard bow. A juvenile in the group was struck by the ship's propellers and killed. The second vessel was steaming in thick fog, inshore off the southeast coast in early January, when it struck a juvenile, apparently dead-on.

Seasonal right whale advisories and sighting reports are broadcast periodically for these areas by Coast Guard Broadcast Notice to Mariners, NAVTEX, NOAA Weather Radio, Cape Cod Canal Vessel Traffic Control, the Bay of Fundy Vessel Traffic Control, and other means. As weather and conditions permit, a dedicated seasonal program of over flights and vessel surveys are done in Cape Cod Bay and the Great South Channel and from the Savannah River, Georgia south to Sebastian Inlet, Florida. However, many right whales go undetected. Consult *Coast Pilots* for the U.S. East Coast and nautical charts for information on the boundaries of right whale critical habitat and precautionary measures that mariners can take to reduce the likelihood of ship strikes.

To address the problem of ship strikes, NOAA and the U.S. Coast Guard have established a Mandatory Ship Reporting System in the above-mentioned right whale critical habitats. As of July 1, 1999, the system requires all commercial ships over 300 gross tons to report to a shore-based station when entering the two habitat areas and provide their name, call sign, course, speed, location, destination and route. In return, ships will receive an automated message indicating that the ship is entering an area critical for right whales, that whales are likely to be in the area and that ship strikes are a serious threat to whales and may cause damage to the ship. Advice on precautionary measures mariners can take to reduce the possibility of hitting right whales and recent sighting locations are also included. The reporting system requires reporting only and will affect no other aspect of vessel operation. For information about how and when to report, consult Coast Guard Local Notice to Mariners (No. 27/99) and an interim final rule (64 FR 29229) which provides the regulations. Also, information regarding the reporting system can be accessed through the Internet at:

(34) ENDANGERED SPECIES (WHALES AND SEA TURTLES) EASTERN SEABOARD. (Continued).

http://www.nmfs.gov/prot_res/cetacean/msr/

In the event of a collision or sighting of a dead whale carcass the Coast Guard should be contacted immediately on VHF Ch. 16.

The National Marine Fisheries Service-appointed Northeastern Right Whale Recovery Plan Implementation Team recommends the following precautionary measures be taken to avoid northern right whales when transiting right whale critical habitat:

- 1. As soon as possible prior to entering right whale critical habitat, check Coast Guard Broadcast Notice to Mariners, NAV-TEX, NOAA Weather Radio, Cape Cod Canal Vessel Traffic Control, the Bay of Fundy Vessel Traffic Control, and other sources for recent right whale sighting reports.
- 2. To the extent possible, review right whale identification materials and maintain a sharp watch with lookouts familiar with spotting whales.
- 3. When planning passage through a right whale critical habitat, attempt to avoid night-time transits, and whenever practical, minimize travel distances through the area. Anticipate delays due to whale sightings.
- 4. When the ability to spot whales is reduced (e.g., night, fog, rain), mariners should keep in mind that reduced speed may minimize the risk of ship strikes. Two of the best documented ship strikes involve a juvenile right whale struck and killed by a vessel proceeding at 15 knots and an unidentified whale, possibly a humpback whale, struck but not re-sighted by the vessel, also moving at 15 knots.

The National Marine Fisheries Service-appointed Southeastern Right Whale Recovery Plan Implementation Team recommends the following precautionary measures be taken to avoid northern right whales. Consult with local pilots' associations for additional precautionary measures when transiting right whale critical habitat during right whale calving season:

- 1. As soon as possible prior to entering right whale critical habitat, check Coast Guard Broadcast Notice to Mariners, NAV-TEX, and other sources for recent right whale sighting reports.
- 2. To the extent possible, review right whale identification materials and maintain a sharp watch with lookouts familiar with spotting whales.
- 3. If a right whale is reported within 20 nautical miles of a ship's position within the previous 24 hours, mariners should exercise caution and proceed at a safe speed, bearing in mind that reduced speed may minimize the risk of ship strikes. Consult with local pilots for additional precautions.
- 4. Whenever practical, minimize travel distances through the critical habitats.
- 5. When the ability to spot whales is reduced (e.g., night, fog, rain), mariners should keep in mind that reduced speed may minimize the risk of ship strikes.
- 6. Local ships' pilots may also provide additional information on the location of right whales and local safe vessel operating procedures.

Both Right Whale Recovery Plan Implementation Teams recommend the following precautionary measures be taken to avoid right whales in all coastal and offshore waters along the east coast:

- 1. If a right whale sighting is reported within 20 nautical miles of a ship's position, post a lookout familiar with spotting whales.
- 2. If a right whale is sighted from the ship, or reported along the intended track of a vessel, mariners should exercise caution and proceed at a safe speed while traveling within a few miles of the sighting location, bearing in mind that reduced speed may minimize the risk of ship strikes.
- 3. When planning passage along the southeast coast, attempt to avoid transit through right whale critical habitat during calving season by remaining offshore, and plan to minimize travel distances through the critical habitat when entering or leaving port.
- 4. Do not assume right whales will move out of your way. Right whales are generally slow moving and seldom travel faster than 5-6 knots. Consistent with safe navigation, maneuver around observed right whales or recently reported sighting locations. Federal regulation prohibits the approach within 500 yards of any right whale anywhere in the U.S. Atlantic EEZ. The same regulations have been implemented in the State of Massachusetts.
- 5. Any whale accidentally struck, any dead whale, or any whale observed entangled in fishing gear should be reported immediately to the Coast Guard noting the precise location, date, and time of the accident or sighting. In the event of a strike or sighting, the following information should be provided to the Coast Guard: location, date, and time of the accident or sighting of a dead or entangled whale; speed of the vessel; size of the vessel; water depth; wind speed and direction; description of the impact; fate of the whale; and species and size, if known.

(34) ENDANGERED SPECIES (WHALES AND SEA TURTLES) EASTERN SEABOARD. (Continued).

6. Right whales can occur anywhere along the east coast. Therefore, mariners are urged to exercise prudent seamanship in their efforts to avoid right whales.

The National Marine Fisheries Service advises that if a sea turtle(s) is sighted, vessels should avoid intentional approach within 100 yards and should reduce speeds to below 4 knots.

(Supersedes N.M. 1(34)99) (PUB0015/1999)

(35) REPORTING DEPTH INFORMATION.

The many ships presently equipped with reliable depth recorders constitute a potential wealth of sounding data desired by charting agencies for the purpose of confirming charted depths or charting heretofore unknown depths. While oceanographic survey vessels remain the primary source of bathymetric data, depth recordings submitted by navy, coast guard and merchant vessels will make an important contribution to the vital task of charting the oceans.

Mariners are encouraged to obtain and report soundings whenever bridge routine and equipment capabilities will allow. The American Practical Navigator (Bowditch) (NVPUB9), Sections 3011-3016 describes the bathymetric requirements and provides some guidance for observing and reporting sonic soundings. However, soundings must be correlated to positions and accompanied by supportive data such as:

(a) Detailed position/time information.(b) Mariner's own evaluation of positional accuracy (type of navigational system used and frequency of fixes).

(c) Ship's course and speed with time of changes noted.

(d) Echogram scales in use and graduated scales provided, with time of scale changes.

(e) Draft of vessel and whether zero reference is corrected for draft.

(f) Regular annotations of date/time marks on echograms to enable correlation with positions.

(g) Other related information considered appropriate.

An uncharted depth of 15 fathoms or less should be considered an urgent danger to navigation, and should be reported via radio without delay. Follow up with substantiating evidence, including the echogram, track chart and/or position log and all relevant navigational data and forward to NIMA at the earliest opportunity.

Charts submitted to amplify a sounding report will be replaced, on request, with a new chart, except that foreign charts will be replaced with the equivalent U.S. chart, if available. Data reports and charts should be sent to the National Imagery and Mapping Agency, Attn: GIMMB, MS D-44, 4600 Sangamore Road, Bethesda, MD 20816-5003, either directly by mail or via any U.S. Consulate.

(Repetition N.M. 1(35)99) (PUB0015/1999)

(36) WARNING-MINED AREAS.

Mines of various types and ages pose a threat to navigation in many parts of the world. Once mined, an area can never be certified to be completely danger free. Sweeping produces only statistical probability of protection. Mines may still remain, having failed to respond to orthodox sweeping methods.

Some swept areas have not been covered by modern surveys and may contain uncharted wrecks, shoals or other dangers to navigation.

Prudent seamanship in former mine fields, swept channels and swept areas includes:

Transit using only established routes or buoyed channels.

Avoid shallow water. Sweeping techniques often preclude sweeping in restricted waters. Floating or drifting mines may be remoored in shallows.

Avoid fishing, trawling or any other form of submarine or seabed activity.

Mariners are advised to anchor with caution only in established anchorages.

Consult local authorities and regulations.

(Repetition N.M. 1(36)99)

(GIMM)

(37) MINED AREAS REPORTED.

MEDITERRANEAN SEA

Minefields-Tarabulus, Libya, Approach.- In early 1973 Libya reported that the following areas had been mined. Although these areas are probably no longer a mine threat, they still represent a potential hazard to navigation. The areas reported by Libya are bounded by lines joining the following positions:

(a) 32 52'48"N., 13 24'30"E. (b) 32 57'42"N., 13 24'30"E. (c) 32 57'42"N., 13 18'00"E. (d) 32 53'48"N., 13 22'18"E.

(a) 32 53'42"N., 13 20'36"E. (b) 32 55'54"N., 13 18'00"E. (c) 32 55'54"N., 13 15'00"E. (d) 32 54'30"N., 13 15'00"E.

(Supersedes N.M. 1(37)99)

(PUB0015/1999)

(38) MINESWEEPING-CAUTION-ATTENTION IS CALLED TO THE FOLLOWING INSTRUCTIONS.

Minesweeping Operations.

(a) United States vessels engaged in minesweeping operations or exercises are hampered to a considerable extent in their maneuvering powers

Other Vessels Must Keep Clear of Minesweepers (COLREGS 1972).

(b) With a view to indicating the nature of the work on which they are engaged, these vessels will show the signals hereinafter mentioned. For the public safety, all other vessels, whether steamers or sailing craft, must endeavor to keep out of the way of vessels displaying these signals and not approach them inside the distances mentioned herein, especially remembering that it is dangerous to pass between the vessels of a pair or group sweeping together.

(c) All vessels towing sweeps are to show:

- BY DAY.-A black ball at the fore mast and a black ball at the end of each fore yard.
- BY NIGHT.-All around green lights instead of the black balls, and in a similar manner.

 (d) Vessels or formations showing these signals are not to be approached nearer than 1,000 meters on either beam and vessels are not to cross astern closer than 1,000 meters. Under no circumstances is a vessel to pass through a formation of minesweep-

(e) Minesweepers should be prepared to warn merchant vessels which persist in approaching too close by means of any of the

appropriate signals from the International Code of Signals.

(f) In fog, mist, falling snow, heavy rainstorms, or any other conditions similarly restricting visibility, whether by day or

(1) In Tog, finst, failing snow, neavy rainstorms, or any other conditions similarly restricting visibility, whether by day or night, minesweepers while towing sweeps when in the vicinity of other vessels will sound signals for a vessel towing (1 prolonged blast followed by 2 short blasts).

Helicopters Conducting Minesweeping Operations.

(g) The United States is increasingly employing helicopters to conduct minesweeping operations or exercises. When so engaged, helicopters, like vessels, are considerably hampered in their ability to maneuver. Accordingly, surface craft approaching helicopters engaged in minesweeping operations should take safety precautions similar to those described in (b) and (d) above with respect to minesweeping vessels. above with respect to minesweeping vessels.

(h) Helicopters towing minesweeping gear and accompanying surface escorts, if any, will use all available means to warn approaching ships of the operations or exercises being conducted. Also, measures will be taken where practicable to mark or

light the gear or objects being towed.

(i) Minesweeping helicopters are equipped with a rotating beacon which has selectable red and amber modes. The amber mode is used during towing operations to notify/warn other vessels that the helicopter is towing. While towing, the helicopter's altitude varies from 15 to 95 meters above the water and speeds vary from 0 to 30 knots.

(j) General descriptions and approximate dimensions for towed minesweeping gear currently being used in conjunction with

helicopters are as follows:

(1) Mechanical sweep gear consisting, in part, of large lengths of submerged cables and explosive The only items normally visible on the surface are three to five international orange floats, depending upon the quantity of gear in use, which generally define the dimensions of the tow. The maximum width is 100 meters and the maximum distance behind the helicopter is 600 meters.

(2) Acoustical sweep device weighing approximately 70 pounds. This device is towed behind the helicopter on a 250-meter orange polypropylene tow cable. When dead in the water, the gear will rise to the surface, supported by a

yellow float.

- (3) A hydrofoil platform containing equipment used for magnetic influence sweeping. The platform is towed on the end of a 140-meter cable and trails electrodes in the water which extend 185 meters behind the platform. Very often, the aforementioned acoustical sweep device is towed in conjunction with this platform by attaching it to the end of one of the electrodes by a 30-meter polypropylene tow line. In this configuration, the total length of the tow is 215 and 350 meters, respectively, behind the hydrofoil platform and helicopter. Special care must be exercised when crossing astern of the hydrofoil platform as the towed cable is barely visible, and the attached acoustic device is submerged just beneath the surface and is not visible to surface vessels.
- (k) Helicopters employed in minesweeping operations and their tows may function at night as well as day, and in various types of weather conditions. The major danger to any surface vessel is getting the various cables wrapped in its screws. Small craft also are subject to the risk of collision with the hydrofoil platform. (Repetition N.M. 1(38)99) (PUB0015/1999)

(39) UNITED STATES-EXPLOSIVE ORDNANCE-WARNING-GENERAL.

The continental shelf of the United States contains many forms of unexploded ordnance (military weapons), and while some ordnance hazard areas are designated, many unexploded ordnance locations are not known. The types most likely to be encountered are underwater ordnance (weapons) such as torpedoes, mines, depth charges, and aerial bombs, but other ordnance items may be found. In general, any metallic object having fins, vanes, propellers, horns, or possibly plates screwed or bolted to an external surface should be regarded as dangerous. This warning is published for all shipmasters, trawlers, fishermen, divers or persons conducting operations on or near the ocean bottom, and provides instructions on the action to be taken

when ordnance items or suspicious objects are encountered.

1. OBJECTS SNAGGED OR NETTED: Any object which cannot be immediately identified as a non-explosive (inert) item MUST BE TREATED AS AN EXPLOSIVE ITEM. If in any doubt about its identity, TREAT IT AS EXPLOSIVE. Non-explosive naval ordnance items such as practice torpedoes and practice mines will normally be painted bright orange, for ready identification. Any object which is not painted orange may be dangerous and possibly can explode if brought on board or

bumped in any way.

If an object is brought to the surface of the water and it cannot be immediately identified as an inert item, DO NOT ATTEMPT TO BRING IT ON BOARD OR ALONGSIDE. If possible, release the object immediately and radio the nearest Navy or Coast Guard activity giving position and description of the object. If the object cannot be released, or freed by cutting net or line, the following actions are advised:

- (1) Stream object as far aft as possible; (2) notify nearest Navy or Coast Guard activity and stand by for instructions or help; (3) position crew at forward end of vessel, keeping deckhouse between them and the object astern; exposed personnel should remain under cover if possible; (4) maintain steerageway as necessary to stay in the area until help or instructions arrive. If unable to stand by while waiting for instructions because of deteriorating weather or sea conditions or other uncontrollable factors, keep the Navy or Coast Guard activity informed of your vessel's position AND AVOID POPULATED AREAS, OTHER VESSELS, OR SHORE-OR SEA-BASED STRUCTURES.
- 2. OBJECTS BROUGHT ON BOARD: If a suspected explosive object is not detected until trawl or net contents have been discharged on board the vessel, take the following actions: (1) avoid any bump or shock to the object; (2) secure it in place against movement; (3) keep it covered up and wet down; (4) radio nearest Navy or Coast Guard activity and standby for instructions. If unable to stand by while waiting for instructions because of deteriorating weather or sea conditions or other uncontrollable factors, keep the Navy or Coast Guard activity informed of your vessel's position AND AVOID POPULATED AREAS, OTHER VESSELS, OR SHORE-OR SEA-BASED STRUCTURES.

 3. FLOATING OBJECTS: If a floating object cannot be readily identified as non-explosive, IT MUST BE CONSIDERED TO BE EXPLOSIVE. DO NOT APPROACH, OR ATTEMPT TO RECOVER OR BRING ON
- BOARD. Report location immediately to the nearest Navy or Coast Guard activity and warn all other ships or craft in the vicinity. Try to keep the object in sight until instructions are received.
- 4. NAVAL MINES: Naval mines constitute a risk to shipping, fishing, underwater exploration, and other maritime interests. The different types of mines, the conditions under which they are most likely to be sighted, and the recommended action are as
- FLOATING MINES: Consider all floating mines to be live and dangerous. DO NOT TOUCH OR APPROACH. The possibility of drifting mines being camouflaged with seaweed or other innocent appearing floating objects should be borne in mind and

avoiding action taken. The following procedures and precautions are recommended: GROUND MINES: ON THE HIGH SEAS. Report the location of the mine by the most rapid means as soon as circumstances permit, this report is to be similar to that required for any hazard to navigation (See para 5).

Mines sighted in anchorage areas or other patrolled water should, if circumstances permit, be kept under observation and reported to the nearest Navy or Coast Guard activity. (See para 5.) The recovery or handling of the mine should be done only by qualified explosive ordnance disposal personnel. If a mine is drifting down on a vessel at anchor and it cannot be avoided by other means, it is recommended that a stream of water from a fire hose be played near the mine to force it away from the vessel. WARNING: Mines may explode if a stream of water is played near them. Exposed personnel should remain under cover until danger is past.

MOORED MINES: Moored mines may sometimes be seen several feet under the surface if the water is clear, or the mine may be floating on the surface. Often several mines or even a long row of the mines can be seen. Usually the sighting of one or more such mines indicates the presence of a minefield. Approaching the general vicinity of such mines is dangerous and should not ordinarily be undertaken by vessels. When mines are sighted, the location of the mines should be determined as accurately as possible, the area should be buoyed if this is feasible, all ships in the vicinity should be warned, and the appropriate Navy or Coast Guard activity should be notified immediately.

Ground mines are normally laid in water so deep that they will not be seen unless the water is very clear. However, in very clear water with a hard white sand bottom, even a camouflaged mine can often be located because of the long, regular shadow it casts. The sighting of such a mine may indicate a minefield in the neighborhood. Approaching the general vicinity of such a mine is very dangerous. If a mine is sighted, the location should be determined as accurately as possible and buoyed, all ships

in the vicinity should be warned, and the appropriate Navy or Coast Guard activity should be notified immediately. BEACHED MINES: Any of the above types of mine may be found on the beach, either thrown up by the waves or mislaid by aircraft. Any mine found beached or floating close inshore should be reported at once to the nearest Navy, Coast Guard, military, or civil authority, and the mine should be kept under guard until the arrival of responsible authorities. No person except qualified explosive ordnance disposal personnel should be allowed closer than 400 yards.

5. REPORTING OF SUSPICIOUS OBJECTS RESEMBLING MINES. Ships frequently report objects resembling mines but

give insufficient information to properly evaluate the reports. As a result, needless time and expense is incurred only to find that they are not mines but other floating objects. HOWEVER, VESSELS SHOULD NOT ATTEMPT TO RECOVER OBJECTS RESEMBLING MINES OR PASS CLOSE ABOARD FOR POSITIVE IDENTIFICATION- KEEP WELL CLEAR. Since mines are a danger to life and property at sext of ships sighting under the following information to the report of the property at sext of the property at the property at sext of the property at sext of the property at the property at sext of the property at sext of the property at the property at sext of the property at the pr requested to furnish the following information to the nearest Navy or Coast Guard radio station or activity:

(39) UNITED STATES-EXPLOSIVE ORDNANCE-WARNING-GENERAL. (Continued).

(1) Position of object, and how closely it was approached.(2) Size, shape, condition of painting, and the presence of marine growth.

(3) Whether or not horns or rings are attached

(4) Whether or not definite identification possible.

(Repetition N.M. 1(39)99)

(PUB0015/1999)

(40) CAUTION-OIL WELL STRUCTURES IN WATERS CONTIGUOUS TO THE U.S. AND ITS TERRITORIES.

Caution should be exercised when navigating in the waters contiguous to the U.S. and its territories particularly in the Gulf of Mexico, Santa Barbara Channel, California, and Cook Inlet, Alaska, in order to avoid collision with oil well structures and their associated mooring piles, anchor and mooring buoys, etc.

In general, oil well structures can be identified at night by the display of one or more quick flashing white or red lights, however, ships can expect to encounter unlighted structures as well. Structures may be equipped with a fog signal consisting of a horn sounding one 2-second blast every 20 seconds. Submerged wells may be marked by lighted or unlighted buoys.

Shipping Safety Fairways have been established through the concentration of oil wells in the Gulf of Mexico and Santa Barbara Channel. Mariners are encouraged to use these fairways and should avoid anchoring within a Safety Fairway. Certain areas adjacent to shipping safety fairways have been charted as fairway anchorages.
(Repetition N.M. 1(40)99)

(USCG (G-MWV-3), Wash., D.C.; PUB0015/1999)

(41) CAUTION REGARDING APPROACH OF SINGLE VESSELS TOWARD NAVAL FORMATIONS AND CON-

A formation of warships or a convoy is more difficult to maneuver than a single ship. Therefore, the attention of masters is A formation of warships of a convoy is more difficult to maneuver than a single snip. Therefore, the attention of masters is called to the danger of all concerned which is caused by a single vessel approaching a formation of warships or convoy so closely as to involve risk of collision, or attempting to pass ahead of, or through such a formation or convoy. All ships are therefore cautioned to employ the customary manners of good seamanship and, where there is ample sea room, adopt early measures to keep out of the way of a formation of warships or convoy. The fact that in the interests of safety a single vessel should keep out of the way of a formation or convoy does not entitle vessels sailing in company to proceed without regard to the movements of the single vessel. Vessels sailing in formation or convoy should accordingly keep a careful watch on the movements of any single vessel approaching the squadron or convoy and should be ready, in the case the single vessel does not keep out of the way to take such action as will best aid to avert collision. keep out of the way, to take such action as will best aid to avert collision.

(Repetition N.M. 1(41)99) (PUB0015/1999)

(42) NATIONAL IMAGERY AND MAPPING AGENCY DISTRIBUTION SYSTEM.

General Information and Customer Ordering Guidance.

a. Defense Supply Center Richmond Product Center 9 (DSCR-JN). The DSCR Product Center 9 Branch (DSCR-JNB), is available to assist customers during normal duty hours, Monday through Friday, 0630 to 1700 EST. After hours messages are recorded for processing on the next business day. The office can respond to inquires regarding catalog usage, ordering procedures, product availability, disposition of excess stock, subscriptions and many other GGI&S related activities and interests.

Mailing Address: Defense Supply Center Richmond

ATTN: DSCR-JNB

8000 Jefferson Davis Highway Richmond, VA 23297-5335

Message Address: DSCR RICHMOND VA//DSCR-JNB//

DSN: 695-6500; Fax: 695-6510

Tel: (804) 279-6500; Fax: (804) 279-6510 Toll Free: 1-800-826-0342

E-mail: pc9@dscr.dla.mil

After Normal Duty Hours and Crisis Support Pager-DSCR-JN Duty Officer: Tel: (804) 279-6500 DSN 695-6500

(42) NATIONAL IMAGERY AND MAPPING AGENCY DISTRIBUTION SYSTEM. (Continued).

b. National Imagery and Mapping Agency (NIMA) Customer Help Desk. The NIMA Customer Help Desk is available to assist customers with general questions about NIMA products and services. U.S. customers may call from 0600 to 1800 CST, Monday through Friday, toll free at 1-800-455-0899. U.S. and OCONUS customers may call DSN: 490-5032; Tel: (314) 260-5032: DSN: Fax: 490-5024, Tel: Fax: (314) 260-1128; (E-mail:

chdesk@nima.mil).

c. Obtaining NIMA Nautical Charts and Publications. DoD customers should refer to the ordering procedures contained in the applicable volume or bulletin of the NIMA Catalog. Requests for NIMA products from non-DoD U.S. Government Agencies are on a reimbursable basis. Public sale customers may purchase NIMA aeronautical and nautical charts and related publications. lications from:

NOAA Distribution Division (N/ACC3) National Ocean Service 6501 Lafayette Avenue Riverdale, MD 20737-1199 Telephone: 1-800-638-8972 (Within the U.S. only) Telephone: (301) 436-8301

Fax: (301) 436-6829

As of 1 October 1992, the public sale of NIMA aeronautical and nautical charts and related publications was transferred to the U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Ocean Service (NOS) (Supersedes N.M. 1(42)99) (PUBÓ015/1999)

(43) CHART NOTES REGARDING DIFFERENT DATUMS.

Particular caution should be exercised during a passage when transferring the navigational plot to an adjacent chart upon a different geodetic datum or when transferring positions from one chart to another chart of the same area which is based upon a different datum. The transfer of positions should be done by bearings and distances from common features.

Notes on charts should be read with care, as they give important information not graphically presented. Notes in connection with the chart title include the horizontal geodetic datum which serves as a reference for the values of the latitude and longitude of any point or object on the chart. The latitudes and longitudes of the same points or objects on a second chart of the same area which is based upon a different datum will differ from those of the first chart. The difference may be navigationally significant. Additionally, datum changes between chart editions could significantly affect the positions of navigational aids found in the List of Lights and other NIMA publications.

(Repetition N.M. 1(43)99)

(GIMM)

(44) INTERNATIONAL HYDROGRAPHIC ORGANIZATION (IHO).

The International Hydrographic Organization (IHO) was originally established in 1921 as the International Hydrographic Bureau (IHB), the present name having been adopted in 1970 as a result of a revised international agreement between the member nations. However, the former name, International Hydrographic Bureau, was retained for the IHO's administrative

body of three Directors and a small Staff at the Organization's headquarters in Monaco.

The IHO sets forth hydrographic standards as they are agreed upon by the member nations. All Member States are urged and encouraged to follow these standards in their surveys, nautical charts and publications. As these standards are uniformly adopted, the products of the world's hydrographic and oceanographic offices become more uniform. Much has been done in the field of standardization since the Bureau was founded.

The principal work undertaken by the IHO is:

(a) To bring about a close and permanent association between national hydrographic offices;(b) To study matters relating to hydrography and allied sciences and techniques;(c) To further the exchange of nautical charts and documents between hydrographic offices of Member Governments;

(d) To circulate the appropriate documents;

(e) To tender guidance and advice upon request, in particular to countries needing technical assistance while engaged in setting up or expanding their hydrographic service; (f) To encourage coordination of hydrographic surveys with relevant oceanographic activities;

- (g) To extend and facilitate the application of oceanographic knowledge for the benefit of navigators;
- (h) To cooperate with international organizations and scientific institutions which have related objectives.

During the 19th century, many maritime nations established hydrographic offices to provide means for improving the navigation of naval and merchant marine vessels by providing nautical publications, nautical charts and other navigational services. Non-uniformity of hydrographic procedures, charts and publications was much in evidence. In 1889, an International Marine Conference was held at Washington, D.C., and it was proposed to establish a "permanent international commission." Similar proposals were made at the sessions of the International Congress of Navigation held at St. Petersburg in 1908 and again in

In 1919 the hydrographers of Great Britain and France cooperated in taking the necessary steps to convene an international conference of hydrographers. London was selected as the most suitable place for this conference and on July 24, 1919, the First International Conference opened, attended by the hydrographers of 24 nations. The object of the

(44) INTERNATIONAL HYDROGRAPHIC ORGANIZATION (IHO). (Continued).

conference was clearly stated in the invitation to attend. It read, "To consider the advisability of all maritime nations adopting similar methods in the preparation, construction, and production of their charts and all hydrographic publications; of rendering the results in the most convenient form to enable them to be readily used; of instituting a prompt system of mutual exchange of hydrographic information between all countries; and of providing an opportunity for consultations and discussions to be carried out on hydrographic subjects generally by the hydrographic experts of the world." In general, this is still the purpose of the International Hydrographic Organization. As a result of the conference, a permanent organization was formed and statutes for its operations were

prepared. The International Hydrographic Bureau, now the International Hydrographic Organization, began its activities in 1921 with 18 nations as members. The Principality of Monaco was selected as the headquarters because of its easy communication with the rest of the world and also because of the generous offer of Prince Albert I of Monaco to provide suitable accommodations for the Bureau in the Principality. The IHO, including the 3 Directors and their staff, is housed in its own headquarters which were buff and are maintained by the Government of Monaco.

Officers and enlisted men of naval vessels and masters, mates or navigating personnel of merchant ships, including pleasure craft, are welcome to visit the Bureau's Office at 7 Avenue President J.F. Kennedy, Monte-Carlo.

The works of the IHO are published in both French and English and distributed through various media. Many of the publications are available to the general public, and a discount of 30 percent is offered to naval or merchant marine officers of any of the member nations. Inquiries as to the availability of the publications should be made directly to the "International Hydrographic Bureau, 7 Avenue President J.F. Kennedy, Monte-Carlo, Monaco."

In order that the work of the IHO may be reviewed and future plans developed, conferences are held every five years. They

are attended by delegates from member nations.

Presently, the following nations are Member States of the International Hydrographic Organization:

Philippines Poland Portugal Algeria Germany Argentina Australia Greece *Guatemala **Qatar Republic of Korea South Africa Bahrain Iceland Belgium India Brazil **Bulgaria Indonesia Iran Russia Singapore Canada Italy **Jamaica Spain Sri Lanka Chile China Japan **Kuwait **Colombia Suriname Croatia Malaysia Sweden **Mauritania Cuba Syria Cyprus Thailand Monaco *Democratic Republic of the Congo **Morocco Tonga Trinidad and Tobago **Mozambique Democratic People's Republic of Korea Netherlands New Zealand *Tunisia Denmark Turkey *Dominican Republic **Ukraine Ecuador Nigeria United Arab Emirates Egypt **Estonia Norway Oman United Kingdom Pakistan United States Finland Papua New Guinea Uruguay Venezuela France ***Yugoslavia

* Rights of Membership suspended

** Membership of IHO pending
*** Serbia and Montenegro have asserted the formation of a joint independent state, but this entity has not been formally recognized as a state by the United States

(Repetition N.M. 1(44)99) (GIMM)

(45) INTERNATIONAL DISTRESS SIGNALS.

- 1. All seamen should be familiar with the international distress signals and procedures, both for recognition purposes and for self-reliance in the event of distress where captain and officers may have been incapacitated.
- 2. Short range distress signals, limited to range of visibility or audibility are:
 - A. "SOS" signal made by any audio or visual means.

B. International Code of Signals "NC"

C. Hoisting any square flag with a ball or anything resembling a ball, above or below it. D. Flames made visible (as a burning oil barrel).

- E. A rocket parachute flare or hand held flare showing a red light.
- F. Rockets or shells, throwing red stars fired one at a time at short intervals. G. Orange smoke, as emitted from a distress flare.

H. A gun or other explosive signal fired at intervals of about one minute.

I. A continuous sounding of any fog-signal apparatus.

J. Slowly and repeatedly raising and lowering arms outstretched to each side.

(45) INTERNATIONAL DISTRESS SIGNALS. (Continued).

3. Radio distress signals via radiotelephone.

A. Trip the radiotelephone alarm signal (if available). A. Irip the radiotelephone alarm signal (if available).

B. Set equipment to distress frequency 2182 kHz (or VHF telephone set to Channel No. 16 (156.80 MHz), and transmit the spoken word "MAYDAY" repeated three times followed by "this is" and then the name of the vessel repeated three times. Do not wait for acknowledgment. Continue by stating the nature of the distress; the kind of assistance desired; the position; and any other information which might facilitate the rescue. Wait a few moments for acknowledgment. Then, if none, repeat the entire distress message until acknowledged. Speak the distress message clearly the entire distress message until acknowledged. Speak the distress message clearly and unhurriedly. Non-acknowledgment is not definite indication that the message was not received by someone.

4. For radio distress signals via radiotelegraph:

(a) Transmit the radiotelegraph alarm signal.
(b) Set transmitter to distress frequency 500 kHz and transmit the morse code signal "SOS" three times, followed by the vessel's radio call sign, followed by the distress message. Since radiotelegraph communications require familiarity with morse code, the most that can be accomplished would be to enable other ships or shore stations to take a radio bearing on the vessel in distress. The Coast Guard has discontinued CW

services. Certain merchant vessels and public coast stations continue to monitor CW. The Coast Guard will respond back via the relaying station until other direct communications are established with the vessel in distress.

5. For radio distress signals via INMARSAT ship earth station:

(a) Select either the telex or telephone mode of operation and place a distress call to the nearest rescue coordination center (RCC) in accordance with the ship-earth station manufacturer's instructions. Note that communications over the satellite terminal may be interrupted during a ship casualty if terminal and antenna are not connected to a source

of emergency power.

(b) Section 359 (d) of the United States Communications Act provides that: "No charge shall be made by any ship or station in the mobile service of the United States for the transmission of distress messages and replies thereto in connection with situations involving the safety of life and property at sea." The FCC interprets this to apply equally to

maritime mobile satellite systems.

(c) Note that neither INMARSAT nor U.S. coast earth stations charge for any distress communications provided that the communication is initiated by a terminal user pressing the distress button (Priority 3 Distress Alert). Note that this button should be used to initiate distress relay as well as distress communications.

- 6. For radio distress signals via digital selective calling: The distress call should be composed to include ship's position inforadio distress signals via digital selective calling: The distress call should be composed to include ship's position information, the time at which the position was taken, and the nature of distress. If the DSC radio is connected to a navigation receiver, position and time-of-position should already be included. The distress call should be transmitted on VHF Channel 70 (156.525 MHz), 2187.5 kHz, or the HF frequencies 4207.5, 6312, 8414.5, 12577 and 16804.5 kHz. An acknowledgment of the distress call should be received on the DSC frequency. Once an acknowledgment has been received, the radio distress procedures via radiotelephone (above) should be followed on the associated voice channel: VHF Channel 17 (156.80 MHz), 2182, 4125, 6215, 8291, 12290 and 16420 kHz. For DSC distress calls on VHF Channel 70 and 2187.5 kHz, the radio distress procedures via radiotelephone should be followed on the associated voice channel if an acknowledgment is not received after a reasonable time (30 sec to 5 min).
- 7. Simple to follow instructions for the operation of auto alarms, radiotelephone and radiotelegraph equipment should be conspicuously posted in the radio rooms of all ships. Procedures outlined here are purposely brief. Complete information on emergency radio procedures is contained in Chapter 4 of Radio Navigational Aids (Pub. 117). The nearest U.S. Coast Guard rescue coordination center MUST be notified whenever an inadvertent distress alert is transmitted. (Repetition N.M. 1(45)99) (USCG (G-SCT), Wash., D.C.)

(46) WORLDWIDE NAVIGATIONAL WARNING SERVICE. (WWNWS).

The Worldwide Navigational Warning Service (WWNWS) was established in 1977 through the joint efforts of the International Hydrographic Organization (IHO) and the International Maritime Organization (IMO). The WWNWS is a coordinated global service for the promulgation by radio of information on hazards to navigation which might endanger international ship-

The basic objective of the WWNWS is the timely promulgation by radio of information of concern to the ocean-going navigator. Such information includes the following: failure and/or changes to major navigational aids, newly discovered wrecks or natural hazards including icebergs in or near main shipping lanes, hazardous military operations and areas where search and

rescue, anti-pollution operations and cable-laying or other underwater activities are taking place.

Because of the wide ocean coverage of the WWNWS broadcasts, consideration is also being given to its selective use to augment other services for promulgating information concerning overdue and missing ships and aircraft.

For purposes of the WWNWS, the world has been divided into 16 Navigation Warning Areas (NAVAREAS) (see graphic page, I-1.34). Within each NAVAREA one national authority, designated the Area Coordinator, has assumed responsibility for the coordination and promulgation of warnings. Designated "National Coordinators" of other coastal states in a NAVAREA are responsible for collecting and forwarding information to the Area Coordinator. In

(46) WORLDWIDE NAVIGATIONAL WARNING SERVICE. (WWNWS). (Continued).

the Baltic, a Sub-Area Coordinator has been established to filter information prior to passing to the Area Coordinator. Coordinators are responsible for the exchange of information as appropriate with other coordinators, including that which

should be further promulgated by charting authorities in Notice to Mariners.

The language used is English, although warnings may also be transmitted in one or more of the official languages of the United Nations.

Broadcast schedules appear in an Annex to the International Telecommunication Union "List of Radio-determination and Special Service Stations", Volume II, and in the lists of radio signals published by various hydrographic authorities (in the U.S., Pub. 117). Transmissions usually occur frequently enough during the day to fall within at least one normal radio watch period, and the information is repeated with varying frequency as time passes until either the danger has passed or the information on it has appeared as a Notice to Mariners. Transmission of information over the WWNWS will continue to be affected by the advent of services such as NAVTEX.

A document giving guidance and information on the WWNWS is available free from the International Hydrographic

Bureau, 7 Avenue President J.F. Kennedy, B.P. 445 Monte Carlo, Monaco.

The comments and recommendations of mariners are earnestly desired to allow improvements to be made both to individual NAVAREA broadcasts and to the overall system. To facilitate such comments, a post card (individual broadcast) report form and a single page (multiple broadcast) report form have been prepared and are available from the IHB. The reporting forms are preaddressed to the Chairman of the IHO Commission which oversees the WWNWS, but may be forwarded to a specific Area Coordinator at the mariner's option. The report forms request, in addition to general comments, information on the date, ship's position, station (with call sign) monitored, and the broadcast's scheduled frequency, language used, adherence to broadcast schedule (frequency and time) and quality of signal (strength, readability). Cooperation of the mariner in reporting such information is urged.

For convenience and information the NAVAREA Coordinators/Addresses are listed as follows on next page:

(46) WORLDWIDE NAVIGATIONAL WARNING SERVICE. (WWNWS). (Continued).

NAVAREA I The Hydrographer of the Navy Radio Navigational Warnings Admiralty Way Somerset TA1 2DN, United Kingdom

(Baltic Sea) Sub-Area Coordinator National Maritime Administration Hydrographic Department S-601 78 NORRKOPING Sweden

NAVAREA II Monsieur le Directeur Epshom BP 426 29275 BREST CEDEX, France

NAVAREA VI Servicio de Hidrografia Naval Avenida Montes de Oca 2124 (1271) BUENOS AIRES, Argentina

NAVAREA VII The Hydrographer, S. A. Navy Private Bag XI, Tokai 7966 CAPE TOWN, South Africa

NAVAREA VIII The Chief Hydrographer to the Government of India Post Box No. 75 DEHRA DUN 248001, India

NAVAREA IX Hydrographic Department Naval Headquarters KARACHI, Pakistan

NAVAREA X Manager, Maritime Safety Services Australian Maritime Safety Authority P.O. Box 1108 BELCONNEN, ACT 2616, Australia NAVAREAS IV AND XII_ Marine Navigation Department ST D 44

Instituto Hidrografico de la Marina

NAVAREA III

CADIZ, Spain

ST D 44 National Imagery and Mapping Agency 4600 Sangamore Road Bethesda MD 20816-5003

NAVAREA V Director Directoria de Hidrografia e Navegacao Rua Barao de Jaceguay S/N Ponta da Armacao NITEROI–RJ, Brazil CEP24048-900

NAVAREA XI The Chief Hydrographer Kaijohoan-Cho Suiro-Bu (Hydrographic Department Maritime Safety Agency) 3-1 Tsukiji 5-Chome Chuo-Ku TOKYO 104, Japan

NAVAREA XIII Chief Head Department of Navigation and Oceanography 8,11 Liniya, B–34 ST. PETERSBURG, 199034, Russia

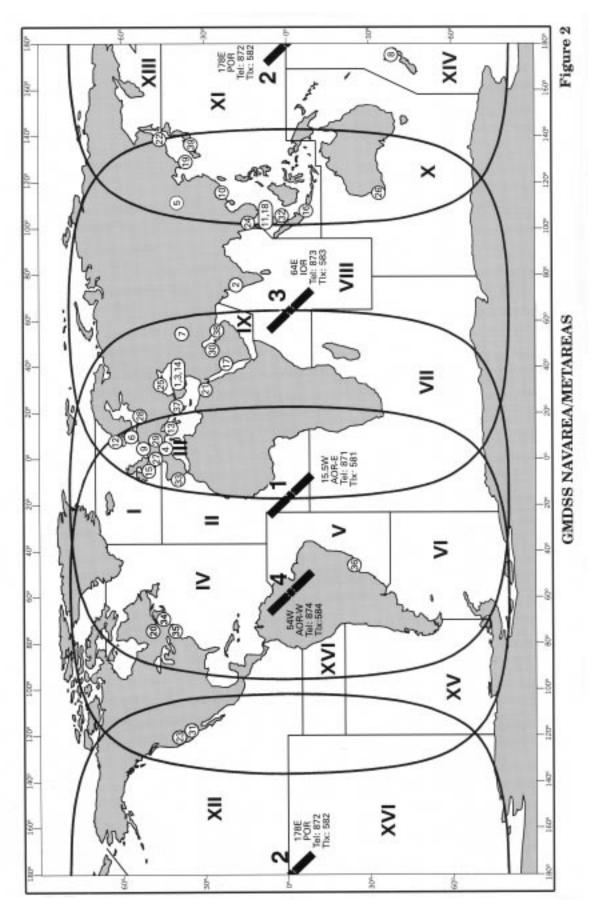
NAVAREA XIV The Hydrographer, Royal New Zealand Navy Hydrographic Office P.O. Box 33341, Takapuna AUCKLAND 9, New Zealand

NAVAREA XV Director del Servicio Hidrografico y Oceanografico Armada de Chile Casilla 324, VALPARAISO, Chile

NAVAREA XVI Direccion de Hidrografia y Navegacion de la Marina Av Gramarra No. 500 Chucuito, CALLAO 1, Peru

Chairman, IHO Commission on Promulgation of Radio Navigational Warnings 7 Avenue President J.F. Kennedy B.P. 445 MC 98011-Monaco CEDEX Principality of Monaco

(Repetition N.M. 1(46)99) (GIMM)



(47) SPECIAL WEATHER REPORTS OR SATCOM FROM SHIPS.

TROPICAL STORMS/HURRICANES

Hurricane season has been designated May 15 through November 30 because of the number of tropical storms and hurricanes during the period. Many special programs are in operation during this season and it is requested that the observation schedule, when in the vicinity of a tropical storm or hurricane, be set to transmit weather reports at least every 3 hours (00, 03, 06, 09, etc.). Hourly reports when within a storm (winds over 48 knots) would be very helpful, if ship routine permits.

SPECIAL REQUESTS FOR OBSERVATIONS: The U.S. National Weather Service may request ships located in areas of suspected storm development to take special observations at more frequent intervals than the routine 6-hourly synoptic observation times. If your ship happens to be in such an area, your report will be helpful even though conditions may not appear bad enough to warrant a special observation.

OBSERVATIONS DURING STORM CONDITIONS: Whenever TROPICAL STORM, TYPHOON, or HURRICANE conditions are encountered anywhere, "SAFETY OF LIFE AT SEA CONVENTION," Chapter V, requires all ships to take special observation and transmit the report to the closest national meteorological service via the most convenient radio or INMARSAT station. In addition to this requirement, it is highly desirable that weather reports be transmitted hourly, if possible; but in any case, not less frequently than every 3 hours.

EXTRATROPICAL STORMS: Submit a weather report message as soon as the average wind equals or exceeds 48 knots. Report at least every 3 hours when under STORM conditions.

COASTAL REPORTS: The weather starts changing as soon as the air moves from land out over the water. Ship weather reporting should continue as close to the coast as ship routine permits. When within 200 miles of the U.S. and Canadian coast-lines, reports are requested every 3 hours.

GENERAL INSTRUCTION FOR REPORTING WEATHER OBSERVATIONS

CODED WEATHER MESSAGES: All weather report messages by radio or INMARSAT will be coded in World Meteorological Organization (WMO) ship synoptic code FM13-IX.

STANDARD SYNOPTIC OBSERVATION TIMES: The regular synoptic hours for reporting are 0000, 0600, 1200, and 1800 UTC. However, watch schedules and other ship functions sometimes make it impractical to meet the synoptic weather reporting schedule. Weather observations may also be submitted at the intermediate hours of 03, 09, 15, and 21 UTC. These should be reported as soon as possible, but no later than 3 hours after the synoptic observation time.

TIMELINESS AND REPORT VALUE: All weather reports should be transmitted as soon as possible to arrive at the National Meteorological Center (NMC) in time to enter the computers. The NMC computers accept weather reports only for a limited time after the synoptic reporting hour. Major computer programs are run at all synoptic hours and a few programs are run every 3 hours. Forecasters look at, and use, all timely reports in making their forecasts and warnings.

TRANSMISSION OF WEATHER REPORT MESSAGES

SITOR OR SINGLE SIDEBAND WEATHER REPORTS THROUGH THE U.S. COAST GUARD: As the usual call up includes "I have weather for you" type of information, no address (i.e., OBS METEO WASHDC) is necessary. The U.S. Coast Guard automatically transmits weather reports only to NMC. When acknowledged, start the message with the group BBXX followed by the ship's call sign and proceed with the numbers of the report.

Some U.S. Coast Guard radio stations will accept weather reports by voice over single sideband radio. The procedures are the same as above. Phonetically pronounce the group BBXX, the ship's call sign, and then proceed with the numbers of the report.

INMARSAT WEATHER REPORTS (STANDARD A):

- 1. Select U.S. Coast Earth Station Identification, Code 01.
- 2. Select routine priority.
- 3. Select duplex telex channel.
- 4. Initiate the call. Upon receipt of GA+ (Go Ahead)
- 5. Select dial code for meteorological reports, 41, followed by the end of selection signal, +. Example: 41+.
- 6. Upon, receipt of our answerback, NWS OBS MHTS, transmit the group BBXX, the ship's call sign, and then the weather message only. Do not send any other preamble. Example:

(47) SPECIAL WEATHER REPORTS OR SATCOM FROM SHIPS. (Continued).

GA+

41 +

NWS OBS MHTS

BBXX WLXX 29003 99131 70808 41998 60909 10250 2021/40110 52003 71611 85264 22234 00261 20201 40803.....

- 7. Send 5 periods to indicate the end of the message.
- 8. Try to limit INMARSAT call time to 30 seconds to reduce costs incurred by the NWS.

(STANDARD C):

1. To establish special access code 41, see manufacturer's recommended instructions for set-up, or see the Mariners Weather Log, Summer 1994 or later editions. Your local Port Meteorological Officer will also be able to assist you.

2. Do not request confirmation for these messages as this incurs additional expense for the National Weather Service.

SITOR OR CW WEATHER REPORTS THROUGH SPECIFIED U.S. COMMERCIAL RADIO STATION: If the U.S. Coast Guard cannot be contacted and ship is not INMARSAT equipped, as a backup, U.S. commercial radio stations specified in the publication "Radio Stations Accepting Ship's Weather and Oceanographic Observations" may be contacted to relay weather messages. The preamble, "OBS METEO WASHDC," is required. The indicator BBXX and the ship's radio call sign, the first groups of all weather messages, are never combined; however, the groups following should be combined to make 10-character groups to minimize the cost. Example (same content as INMARSAT message):

OBS METEO WASHDC

BBXX WLXX 2900399131 7080841998 6090910250 2021/40110 5200371611 8526422234 0026120201 3110040803

Only the current observation should be transmitted.

U.S. MARINE FORECAST AND WARNING AREAS:

Pacific: 160 E eastward to coast and north of 25 S

Atlantic: 35 W westward to the coast, including Gulf of Mexico and the Caribbean, and north of 3 N

Guam: Between 5 N and 25 N and from 135 E to 180

INMARSAT ONLY: South of 60 S

COST AND OTHER INFORMATION: The U.S. Government pays for all weather report communications costs from ships in the above areas using specified procedures and contacting specified U.S. radio and INMARSAT Coast Earth Stations (CES).

Only the United States, United Kingdom, Australia, Saudi Arabia, Japan, Greece, France and Singapore are known to accept INMARSAT weather report messages free of charge to ships or companies. No action is required by the ships or their companies. For additional information contact:

Marine Observations Program Leader National Weather Service, NOAA SSMC2, #14112 1325 East-West Highway Silver Spring, MD 20910

Telephone (301) 713-1677, ext. 129

(Repetition N.M. 1(47)99) (NWS, Wash., D.C.)

(48) RADAR BEACONS (RACONS).

Radar beacons (RACONs) are radar responder devices designed to produce a distinctive image on the screens of ship's radar sets, thus enabling the mariner to determine his position with greater certainty than would be possible using a normal radar display alone.

The US Coast Guard operates approximately 50 radar beacons (RACONs) as maritime navigational aids in the Great Lakes, off the Atlantic, Pacific, and Gulf coasts, and on the North Slope of Alaska. RACONs are used to mark and identify points on shore; channel separation, LNB, and other buoys; channel entrances under bridges; and uncharted hazards to navigation (the Morse letter "D", dash-dot-dot, has been reserved for this purpose). RACON marks displayed on a radar screen are Morse characters typically of length 1 to 2 miles, always start with a dash, and always extend radially outward from the radar target marked by the beacon. RACON locations and identifications are included on most marine navigation charts.

RACON's should be visible to most commercial shipboard radar systems on vessels 6-20 miles from the RACON installation, regardless of radar size. No additional receiving equipment is required. Some precautions are necessary, however, if use of RACONs is desired. Radars that operate in the 10 cm band (2900-3100 MHz) are usually installed as a second radar on larger vessels, and may not respond to RACONs. The Coast Guard now installs dual band (3 cm and 10 cm) RACONs in most locations. In addition, rain clutter control switches on radars must be switched off or, if necessary, on low to ensure that the RACON is visible. Finally, most RACONs operating in the US are frequency agile RACONs. Pulse correlation circuitry (interference or clutter rejection on some radars) installed on most newer radars, if on, may prevent the radar from displaying some RACONs. This circuitry should be switched off.

(Repetition N.M. 1(48)99)

(USCG (G-SCT), Wash., D.C.)

(49) NAVTEX.

NAVTEX is an internationally standard method of broadcasting notices to mariners and marine weather forecasts using small, low cost printing receivers designed to be installed in the pilot house of a vessel. NAVTEX receivers screen incoming messages, inhibiting those which had been previously received or are of a category of no interest to the user, and print the rest on adding machine-sized paper. NAVTEX not only provides marine information previously available only to those knowledgeable in morse code, but also allows any mariner who cannot man a radio full time to receive safety information at any hour immediately. All NAVTEX transmissions are made on 518 kHz. Mariners who do not have NAVTEX receivers but have SITOR radio equipment can also receive these broadcasts by

operating it in the FEC mode and tuning to 518 kHz.

The Coast Guard broadcasts NAVTEX messages from Boston, MA; Portsmouth, VA; Miami, FL; New Orleans, LA; San Juan, PR; Kodiak, AK; and Honolulu HI. These broadcasts are as follows:

BOSTON, MA (NMF): Identification (B_): F Schedule (UTC): 0445, 0845, 1245, 1645, 2045, 0045 PORTSMOUTH, VA (NMN): Identification (B_): N Schedule (UTC): 0130, 0530, 0930, 1330, 1730, $\overline{2}$ 130 MIAMI, FL (NMA): Identification (B_): A Schedule (UTC): 0000, 0400, 0800, 1200, 1600, 2000 NEW ORLEANS, LA (NMG): Identification (B_): G Schedule (UTC): 0300, 0700, 1100, 1500, 1900, 2300

SAN JUAN, PR (NMR): Identification (B): R

Schedule (UTC): 0200, 0600, 1000, 1400, 1800, 2200

HONOLULU, HI (NMO): Identification (B_): O

Schedule (UTC): 0040, 0440, 0840, 1240, 1640, 2040

GUAM (NRV): Identification (B_): V Schedule (UTC): 0100, 0500, 0900, 1300, 1700, $\overline{2}100$

KODIAK, AK (NOJ): Identification (B): J

Schedule (UTC): 0300, 0700, 1100, 1500, 1900, 2300

(49) NAVTEX. (Continued).

SAN FRANCISCO, CA (NMC):

Identification (B_): C

Schedule (UTC): 0400, 0800, 1200, 1600, 2000, 0000

CAMBRIA, CA (NMC):

Identification (B): Q

Schedule (UTC): 0445, 0845, 1245, 1645, 2045, 0045

ASTORIA, OR (NMC):

Identification (B): W

Schedule (UTC): 0130, 0530, 0930, 1330, 1730, 2130

SAVANNAH, GA: (NMN)

Identification (B): E

Schedule (UTC): 0040, 0440, 0840, 1240, 1640, 2040

Information broadcast over NAVTEX includes offshore weather forecasts, offshore marine advisory warnings, search and rescue information, and navigational information that applies to waters from the line of demarcation (separating Inland Rules waters from COLREG Rules waters) to 200 NM offshore. Navigational information that affects the safety of navigation of deep draft (15 feet or more) vessels within U.S. Inland Rules waters will also be included.

Gulf Stream location is also included from Miami and Portsmouth. Coastal and high seas weather forecasts are not being

broadcast over NAVTEX.

High seas weather information, NAVAREA IV/XII, HYDROLANT/PACs and ice information over HF radiotelex (narrowband direct printing) began July 1991 from Coast Guard Stations in Boston, San Francisco, Honolulu and Guam. Broadcasts are made on 6314 kHz, 8416.5 kHz, 12579 kHz, 16806.5 kHz and 22376 kHz. (Supersedes N.M. 1(49)99) (USCG (G-SCT), Wash., D.C.; PUB0015/1999)

(50) SATELLITE DETECTION OF DISTRESS SIGNALS.

The COSPAS-SARSAT System is an international cooperative effort using satellites to detect distress beacons carried by aircraft, vessels, and persons operating in harsh remote environments. A constellation of satellites in low- earth, polar orbits detects and relays distress beacon signals to ground stations. The system delivers distress alerting and position information to the appropriate Rescue Coordination Center.

Extensive coverage is provided over the North American maritime region and other areas for 121.5/243.0 MHz; the 406

MHz system is global in its coverage.

COSPAS-SARSAT has just completed a Demonstration and Evaluation for a geostationary satellite complement to the polar orbiting constellation. Satellites in orbit over a fixed point on the equator at 22,000 miles continuously monitor the earth within their view, about 40% of the earth's surface. These satellites process 406 MHz beacon signals only. The geostationary satellites support immediate distress alerting for beacons within their field of view. The United States, India and Russia are currently operating participating satellites. Other nations plan to participate in the near future.

EMERGENCY POSITION INDICATING RADIO BEACON (EPIRB).

The Emergency Position Indicating Radio Beacon (EPIRB) is an emergency radio transmitting device used for maritime distress alerting and locating. Table 1 provides an overview of the different classes of EPIRBs currently in existence. Table 2 gives summary comparison of the significant differences between the 406 MHz and 121.5/243.0 MHz beacons. It should be noted that classes A,B,C, and S are gradually being phased out and replaced by Satellite EPIRBS of Cat I and II. For current carriage requirements refer to Navigation and Vessel Inspection Circular No. 9-95; any questions concerning requirements to carry EPIRBs or other safety equipment should be referred to the U.S. Coast Guard (G-MSE-4) Lifesaving and Fire Safety Division, telephone (202) 267-1444.

TABLE 1

CLASS	FREQUENCY	DESCRIPTION	DETECTION
Cat I	406 MHz with 121.5 MHz homing signal	Float free beacon	Polar orbiting and geosta- tionary satellites, high fly- ing aircraft
Cat II	406 MHz with 121.5 MHz homing signal	Manually activated	Polar orbiting and geosta- tionary satellites, high fly- ing aircraft
A	VHF-AM 121.5 & 243.0 MHz	Float free	Polar orbiting satellites and high flying aircraft
В	VHF-AM 121.5 & 243.0 MHz	Manually activated or water- activated battery	Polar orbiting satellites and high flying aircraft

(50) SATELLITE DETECTION OF DISTRESS SIGNALS. (Continued).

S VHF-AM

121.5 & 243.0 MHz

Manually activated (same as Class B); required for survival

high flying aircraft

Polar orbiting satellites and

craft (SOLAS)

Inmarsat-E 1646 MHz Float free beacon

Satellites

TABLE 2

SUMMARY COMPARISON OF 406 MHz AND 121.5 MHz BEACONS IN THESE CRITICAL AREAS

406 MHz EPIRB **Coverage:**

Global.

121.5 MHz EPIRB

Ground station dependent; ground stations have an effective radius of about 1800 NM. Current coverage: about one-third of the world.

Reliability-

False Alerts/False Alarms:
All alerts come from beacons. Satellite beacon transmissions are digital coded signals. Satellites process only coded data, other signals are rejected.

Only about 1 in 4 alerts come from beacons. Satellites cannot discern beacon signals from many nonbeacon sources. Beacons transmit anonymously.

About 1 in 10 alerts are actual distress.

Fewer than 1 in 100 alerts are actual distress.

Individual beacon-unique coding and registration allow rapid incident corroboration. Registration became mandatory 9/13/94. About 90% of 406 MHz beacons are registered. More than 80% of 406 MHz false alarms are resolved by a phone call to registration POCs.

Since 121.5 MHz beacons transmit anonymously, the only way to ascertain the situation is to dispatch resources to investigate—a costly disadvantage.

Alerting:

First alert confidence is sufficient to warrant launch of SAR assets. Earlier launches put assets on scene earlier— Average 2 hrs saved in maritime, 6 hrs in inland. These savings are survival-significant.

High false alarm rate makes first-alert launch infeasible. Absent independent distress corroboration, RCCs must wait for additional alert information.

Average initial detection/alerting by orbiting satellite is 45 minutes—worst case about 60 minutes.

Same as 406 MHz.

Average time between subsequent satellite passes is about 60 minutes.

Same as 406 MHz.

Vessel/aircraft ID, point of contact information provided with alerts allows rapid corroboration or stand-down.

Alerts are anonymous 121.5 MHz technology not capable of transmitting data.

(50) SATELLITE DETECTION OF DISTRESS SIGNALS. (Continued).

Allows false alarm follow-up to continuously improve system integrity/reliability.

No capability.

Near instantaneous detection by geostationary satellites. (System in demonstration and evaluation phase with very substantial coverage 70N to 70S.)

No capability.

Position Information:

2–5 km accuracy on average. Position calculated by Doppler shift analysis.

10–20 km accuracy on average. Position calculated by Doppler shift analysis.

Capable of processing beacon-transmitted position information from independent source, e.g.: GPS.
Capable beacons and system infrastructure will be available/in place by end of 1997.

No capability.

Locating the Target:

Superior alert position accuracy limits initial position uncertainty to about 40 sq. km.

Initial position uncertainty is about 700 sq. km on average.

121.5 MHz homing signal facilitates target location by radio detection finder-equipped search units.

Same as 406 MHz.

The nearest U.S. Coast Guard rescue coordination center MUST be notified whenever an inadvertent EPIRB distress alert is transmitted.

Distress beacon false alarms are a major problem. False alarms delay response, divert scarce response resources from real distress situations, and can quickly overburden the SAR system. Minimize false alarms with proper handling and storage of EPIRBs; understand and comply with manufacturer's operating instructions for your particular EPIRB and tune a radio to 121.5 or 243.0 MHz to monitor the frequency/detect any inadvertent activation. EPIRBs with two-condition, automatic-activation switches (e.g. out of bracket and in water) have demonstrated significantly reduced false alarm rates with no adverse impact on automatic distress performance. The aviation equivalent, the Emergency Locator Transmitter (ELT), has an extremely poor track record in regard to false alarms. While the EPIRB does not have the same engineering problems, the EPIRB user must be aware of how false activations can quickly overburden search and rescue resources.

EPIRB user must be aware of how false activations can quickly overburden search and rescue resources.

Inadvertent activations should be reported immediately to the nearest RCC to protect system integrity and prevent costly false alarm response.

EPIRB owners should routinely test their beacons in accordance with manufacturer instructions, and examine them for water tightness and battery expiration date. FCC rules allow class A, B, and S EPIRBs to be turned on briefly (one second only) during the first five minutes of any hour. Signal presence can be detected by an FM radio tuned to 99.5 MHz or an AM radio tuned to any vacant frequency and located close to an EPIRB.

406 MHz beacon registration has been mandatory since 13 September 1994. Satellite emergency position-indicating radio beacon (EPIRB) is intended to save your life, and is also required by Federal Communications Commission regulations. NOAA maintains the U.S. registration data base. When a 406 MHz alert is received, the system automatically checks the data

NOAA maintains the U.S. registration data base. When a 406 MHz alert is received, the system automatically checks the data base for an ID match and appends available registration information to the alert message to the responsible RCC. Registration point of contact-provided position information can be used in conjunction with geostationary satellites immediate alerting to allow SAR response 45-90 minutes sooner than otherwise possible—a survival-significant response advantage. In circumstances where the COSPAS-SARSAT system is not able to calculate a distress position, registration data may provide the only link to rescue

If you purchase a new or a used 406 MHz EPIRB, you MUST register it with NOAA. If you change your boat, your address or your phone number, you MUST re-register your EPIRB with NOAA.

Request 406 MHz EPIRB registration forms from, and mail or fax completed forms to:

(50) SATELLITE DETECTION OF DISTRESS SIGNALS. (Continued).

NOAA/NESDIS SARSAT Operations Division, E/SP3 Federal Office Building 4 Washington, D.C. 20233

or call (301) 763-4680 (fax: (301) 457-5430) for further information on registering these EPIRBs. NOAA sends a decal to be affixed to the beacon to confirm registration and as ready evidence of compliance. NOAA contacts all registered beacon owners on a two year schedule to maintain database accuracy. This service is free of charge. Please keep your registration current - IT MAY SANE YOUR LIFE.

(Supersedes N.M. 1(50)99)

(USCG (G-OPR-2,G-SCT), Wash., D.C.; PUB0015/1999)

(51) HF AND VHF RADIOTELEPHONE AND RADIOTELEX MARINE SAFETY BROADCASTS.

Urgent and routine broadcasts of marine safety information are announced on VHF Channel 16 (156.8 MHz) and made on Channel 22A (157.1 MHz), the ship station transmit frequency portion of Channel 22, of Appendix 18 of the International Telecommunications Union (ITU) Radio Regulations.

The Coast Guard normally broadcasts selected coastal navigational warnings, local major navigational warnings, and local minor navigational warnings on VHF Channel 22A. NAVTEX broadcasts normally include only coastal navigational warnings and weather information. Medium frequency radiotelephone broadcasts can include coastal or selected coastal and local major navigational warnings. These single sideband voice broadcasts are announced on 2182 kHz and are made on 2670 kHz. Information regarding USA VHF-FM marine safety broadcasts is published in the ITU List of Radiodetermination and Special Service Stations and other internationally- available publications.

Questions and comments concerning VHF marine safety broadcasts should be addressed to the local Coast Guard district (dtm) stoff or to:

(dtm) staff, or to:

Commandant (G-SCT) United States Coast Guard Washington, DC 20593-0001

Telex: 628-06908 COMDT COGARD Washington, DC

FORMAT OF MARINE INFORMATION BROADCAST/MESSAGES.

- 1. Urgent Marine Information Message.
 - a. Radiotelephone:

(1) 2182 kHz and/or Channel 16 (156.8 MHz). PAN-PAN (3 times) HELLO ALL STATIONS THIS IS (voice call sign twice) (brief identifying data) LISTEN (2670 kHz or Channel 22A) OUT

(2) 2670 kHz and/or Channel 22A (157.1 MHz). PAN-PAN (3 times) HELLO ALL STATIONS THIS IS (voice call sign twice) break (text) break THIS IS (voice call sign once) OUT

b. Cancellation message:

(1) Radiotelephone. PAN-PAN HELLO ALL STATIONS HELLO ALL STATIONS HELLO ALL STATIONS THIS IS (voice call sign once, date and time of message and brief identifying data on canceled urgent traffic) CANCEL PAN-PAN THIS IS (voice call sign once) OUT

2. Safety Marine Information Message Format.

Radiotelephone:

(1) 2182 kHz and/or Channel 16 (156.8 MHz) SECURITE (3 times) HELLO ALL STATIONS THIS IS (voice call sign twice) COAST GUARD MARINE INFORMATION BROADCAST (or) HURRICANE ADVISORY/STORM WARNING etc. LISTEN (2670 kHz and/or Channel 22A) OUT

(2) 2670 kHz and/or Channel 22a (157.1 MHz) SECURITE (3 times) HELLO ALL STATIONS THIS IS (voice call sign once) break (text) break THIS IS (voice call sign once) OUT

- 3. Scheduled Broadcast Format.
 - a. Radiotelephone:

(1) 2182 kHz and/or Channel 16 (156.8 MHz). HELLO ALL STATIONS (3 times) THIS IS (voice call sign twice)
COAST GUARD MARINE INFORMATION BROADCAST LISTEN (2670 kHz and/or Channel 22A) OUT

(51) HF AND VHF RADIOTELEPHONE AND RADIOTELEX MARINE SAFETY BROADCASTS. (Continued).

(2) 2670 kHz and/or Channel 22A (157.1 MHz) HELLO ALL STATIONS (3 times) THIS IS (voice call sign once) BT (text) BT THIS IS (voice call sign once) OUT

b. No preliminary announcement is made for HF broadcasts.

c. When no information is to be transmitted during a scheduled broadcast, the station shall make the following transmission after the call: "NO MARINE INFO BCST THIS SCHEDULE"

4. Abbreviations.

a. In order to reduce the circuit time of Marine Information Broadcasts, readily recognizable abbreviations shall be used by the originator where there is no chance of ambiguity. b. When broadcasting National Weather Service (NWS)

information the exact text as received from the NWS shall be transmitted. (Repetition N.M. 1(51)99)

(USCG (G-SCT), Wash., D.C.)

(52) MARAD ADVISORIES.

MARAD Advisories rapidly disseminate information on government policy, danger and safety issues pertaining to vessel operations, and other timely maritime matters. MARAD Advisories are periodically issued by the U.S. Maritime Administration (MARAD) to vessel masters, operators and other U.S. maritime interests. The texts of MARAD Advisories are published in weekly Notice to Mariners No. 1, and can be accessed through the National Imagery and Mapping Agency's Automated Notice to Mariners System of the Navigational Information Network and through the MARAD Website (http://marad.dot.gov).

Text of MARAD Advisories in force as of 26 December 1998 as follows:

MARAD ADVISORY NO. 96-5 (181146Z April 96)
SUBJECT: ENFORCEMENT OF UNITED NATIONS SANCTIONS AGAINST IRAQ BY THE MULTINATIONAL NAVAL INTERCEPT EFFORT (252100Z Mar 96)
TO: All Operators of U.S. Flag and Effective U.S. Controlled Vessels.

- 1. The following advisory has been issued by the Commander U.S. Navy Forces Central Command (COMUSNAVCENT) Concerning the maritime interception operations in the Red Sea and Arabian (Persian) Gulf which enforces the United Nations sanctions against Iraq.
- 2. This message was issued to reinforce the maritime sanctions enforcement effort for merchant shipping in the Arabian Gulf. new instructions incorporate advance liaison and specific cargo configuration information, and update MARLO telephone numbers.
- 3. The multinational naval intercept effort in support of U.N. sanctions against Iraq has ended in the Red Sea, Strait of Tiran and Strait of Hormuz, but remains in effect in the Persian Gulf. Cargo bound for Aqaba or transshipment from Aqaba will be inspected on shore by Lloyd's Register, according to an agreement worked out among Lloyd's Register, the U.N. Sanctions Committee, and the Aqaba Port Authority. Vessels transiting the north Persian Gulf or Shatt al Arab or Khor Abdullah waterways can expect to be queried and, if bound for or departing from Iraq, also intercepted and boarded by multinational naval units enforcing U.N. sanctions. Documentation requirements for the shore-based regime in Aqaba and for the naval regime in the Persian Gulf are identical. Except for U.N. approved shipments and shipments of foodstuffs or medical supplies inbound for Iraq, no cargo addressed TO/FROM, or for transshipment TO/FROM, Iraq is permitted to pass the intercept area.
- 4. The following are requirements for all shipping transiting the intercept operations area:
- A. All cargo must be accessible for an at-sea inspection by interception forces. The following specific guidance applies:

 1). Prior notification via facsimile or letter to the Maritime Liaison Office, Bahrain at 973-729
 294 of the following information will help facilitate the vessel clearance process: vessel name, flag, IRCS, itinerary, volume of cargo, description of cargoes, number of holds, hold dimensions, identification of vessel shipping agent, cargo and vessel owners.
- 2). Cargo configuration: cargo carriers are responsible for loading cargoes to help ensure accessibility:

 Containerized cargo: do not stack cargo containers more than three high from the deck. As a safety precaution to protect inspection teams, containers stacked more than three high from the deck will be considered inaccessible. this provision applies to both internal and deck-loaded containers.

Break bulk: any packaged or bagged cargo must be loaded in a configuration to allow thorough inspection. Palletized rows of cargo require separation to allow for safe access.

Loose bulk: loose bulk cargo must be accessible for physical and visual inspection, and verification by means of measurement, soundings, and sampling. Hatch covers must be opened to allow thorough inspection.

(52) MARAD ADVISORIES. (Continued).

B. An original manifest list describing the cargo on board the vessel, as well as its location on the ship, must be on board. the interception forces require that the original manifest included the port of origin, ports of call, complete business names and addresses of all shippers and consignees, and final destinations of all cargo. a complete business address must include either:

1) The street address, or

2) A prominent identifiable geographic location, or3) A post office box number plus a telephone number or facsimile number.

This same information must be provided for the cargo's origin in the case of outbound cargo (note that this does not apply to United Nations authorized cargo). Cargo addressed to a free trade zone must have the name, address, and telephone or facsimile number of the consignee taking custody of the container or cargo.

- C. Consignee names and addresses on all cargo must match the manifest.
- D. The manifest must be signed in the original by the master or chief mate of the vessel. The manifest may be on shippers letterhead, facsimile, photocopy, or computer printout, but must bear an original signature, contain all the information listed above and must otherwise be in compliance with normal maritime transport practice.
- E. The original manifest may consist of more than one document through amendments that list cargo dropped off at a given port or that correct the original manifest. These amendments may originate from the shipper or carrier. Since additional documents may be transmitted to a vessel by such means as telegram or facsimile, they need not bear an original signature. However, the master is required to certify in writing that the amended manifest accurately reflects what is on board the vessel. The underlying requirement necessitates accurate delineation of cargo and destination and a high degree of confidence that the documents are authentic.
- F. Vessels which are determined to have incomplete cargo manifests in accordance with the guidelines contained in this advisory may be directed back to the last port of call as indicated on the cargo manifest.
- G. The MIF will continue taking oil samples from interdicted vessels for laboratory analysis, examination, and comparison with Iraqi petroleum control samples. If the MIF received confirmation and chemical proof that petroleum samples from a detained vessel scientifically match crude oil from Iraq, the vessel will not be allowed to proceed and will be diverted.
- H. Cruise ships with no commercial cargo carrying capacity may arrange for an expeditious transit of the interception area by sending certification from a recognized classification society stating that the cruise ship does not have commercial cargo carrying capacity. The certification must be sent via letter or fax to COMUSNAVCENT'S maritime interception coordinator (fax and phone numbers listed below) at least 60 days prior to transit.
- I. If a cruise ship arrives on station and its status is unknown or if it is capable of carrying commercial cargo, the vessel will be boarded and inspected during the daylight hours. If it is determined during the boarding that the cruise ship has no commercial cargo carrying capability, the vessel will be visually identified during the next transit and not boarded.
- 5. For merchant advisory updates, merchant vessels can contact COMUSNAVCENT's Maritime Interception Coordinator via fax at (973) 727-294 or landline (973) 729-227/137.
- 6. Cancel MARAD Advisory 95-8.
- 7. Vessel operators are requested to forward this advisory to their vessels in the affected area, as necessary. Note that this advisory will subsequently be published in the NIMA weekly Notice to Mariners, NIMA on-line NAVINFONET system and MARAD Marlinespike bulletin board system (202-366-8505).

MARAD ADVISORY NO. 97-3 (231554Z Oct 97)

SUBJECT: MARITIME THREAT IN THE SOUTHERN PHILIPPINE ISLANDS TO: All Operators of U.S. Flag and Effective U.S. Controlled Vessels.

- 1. Based on intelligence information obtained through the U.S. Department of Transportation a threat of violent terrorist attacks against maritime targets exists in the southern Philippine Islands. Recently, Muslim separatists groups have been increasing their attacks, with three incidents occurring within the past three months. sources have assessed that these groups may target foreign vessels as part of their campaign against the Philippine Government.
- 2. The majority of these maritime incidents occurred near the island of Mindanao utilizing hit and run tactics such as strafing, grenade and rocket attacks launched from speedboats against slower moving cargo ships and tankers, merchant ships may also be at risk of hijacking for robbery and cargo theft.
- 3. It is recommended that mariners operating in the affected area review their security procedures, exercise caution and vigilance and obtain and evaluate warning information from NIMA's HYDROPAC broadcasts, Notice to Mariners and the Navigation Information Network (NAVINFONET). Mariners should also review procedures for the

(52) MARAD ADVISORIES. (Continued).

- "U.S. Merchant Marine Communications Call-up Procedures in Emergency Situations" and the "Ship Hostile Action Report" found in NIMA's Pub. 117.
- 4. Vessel operators are requested to forward this advisory to their vessels operating in the subject area. Note that this advisory will subsequently be published in the Notice to Mariners, NAVINFONET and the MARAD World Wide Web site.
- 5. For further information regarding this advisory contact Mr. Peter Petrelis, Maritime Administration Office of Ship Operations, MAR-613, 400 Seventh Street SW, Washington DC 20590; telephone (202) 366-6252; FAX (202) 366-3954; TELEX 710-822-9426 (MARAD DOT WSH); or email: PETER.PETRELIS@MARAD.DOT.GOV.

MARAD ADVISORY NO. 98-1 (131941Z May 98)

SUBJECT: MINE DANGER AREA ADVISORY FOR MERCHANT SHIPPING IN THE NORTHERN PERSIAN (ARABIAN) GULF

TO: All Operators of U.S. Flag, Effective U.S. Controlled Vessels and other maritime interests.

- 1. The following merchant ship advisory of current conditions has been issued by the commander, U.S. Navy Central Command (COMUSNAVCENT). This advisory cancels MARAD Advisory 92-2 and provides the current status of mine clearance operations and the results of mine danger area (MDA) clearance off the coast of Kuwait to date.
- 2. COMUSNAVCENT mine countermeasure ships have been conducting extensive mine hunting operations in the Arabian Gulf in an attempt to certify known mined areas to be mine free. To date, through searches of MDA numbers SIX, SEVEN, EIGHT and NINE as defined in MARAD Advisory 92-2 have been completed with no mines or ambiguous contacts found.
- 3. The following MDA was specified as an area where mines were known to exist and although partially searched for mines remains the area with the highest probability of mines and should be avoided by all shipping:

MDA NUMBER TEN 29-51.50N 048-46.30E 29-51.50N 048-48.00E 29-40.30N 048-48.00E 29-37.25N 048-39.60E 29-37.25N 048-32.50E

4. COMUSNAVCENT has determined that appropriate clearance of MDA number SIX has been achieved with the exception of the shallowest portion designated as follows:

MDA NUMBER SIX (B) 28-37.75N 048-24.25E 28-38.23N 048-26.60E 28-32.14N 048-32.50E 28-32.00N 048-27.50E

- 5. The remainder of MDA number SIX and MDAs number SEVEN, EIGHT and NINE have been rescinded.
- 6. This cancellation of previous MDAs, transit channel coordinates and mine-swept areas does not guarantee safe passage or the absence of mines, nor does it represent any assumption of liability by the U.S. Government for the safety of commercial traffic. All merchant vessels are free to choose their own navigational tracks and are not restricted by this advisory or the U.S. government in the choice.
- 7. For updates on this advisory merchant vessels can contact the COMUSNAVCENT Maritime Liaison Office (MARLO) Bahrain via TELEX 7031 (ASU BN), landline (973) 729-137, or Fax (973) 727-294.
- 8. Note that the positions listed in this advisory are given using the World Geodetic System (WGS).
- 9. Vessel operators are requested to forward this advisory to their vessels in or entering the affected area as soon as possible and to all other vessels by the most effective means.
- 10. For further information regarding the issuance of this or other MARAD advisories, contact the Maritime Administration, Office of Ship Operations, Division of Operations Support, Code MAR-613, Room 2123, 400 Seventh Street SW, Washington DC 20590; Telephone (202) 366-5735, Facsimile (202) 366-3954.

MARAD ADVISORY NO. 98-2 (131945Z May 98) SUBJECT: UPDATED COMMUNICATION METHODS FOR FILING AMVER REPORTS TO: OPERATORS OF U.S. FLAG AND EFFECTIVE U.S. CONTROL VESSELS

AMVER, The Automated Mutual-Assistance Vessel Rescue System, sponsored by the U.S. Coast Guard, is a unique, computer-based and voluntary global ship reporting system used world-wide by search and rescue authorities to arrange for assistance to persons in distress at sea. AMVER's success is tied directly to the number of merchant vessels regularly reporting their position. Ships incur no additional obligation to respond than already exists under Inter

(52) MARAD ADVISORIES. (Continued).

national Law of the Sea. Since AMVER identifies the best ship or ships to respond, it releases other vessels to continue their voyage, saving fuel, time and payroll costs. Finally, information sent to AMVER is protected and used only in a bonafide maritime emergency.

There follows four methods for ships to transit the AMVER report:

- 1. Method: Electronic mail via the internet AMVER's address: 62899122@eln.attmail.com if a ship already has an inexpensive means of sending electronic mail to an internet address, this is a preferred method. Electronic mail may be sent via satellite or via HF radio, depending on the ship's equipment and arrangements with communications providers ashore. Ships must be equipped with a personal computer, an interface between the computer and the ship's communications equipment and the appropriate software.
- 2. Method: AMVER/SEAS AMVER's address: INMARSAT-C via COMSAT ships equipped with INMARSAT-C, an IBM-compatible personal computer, an interface between them and the AMVER/SEAS software (available free of charge from the U.S. National Oceanographic and Atmospheric Administration, NOAA), may send combined AMVER/weather messages free of charge via COMSAT land earth stations. This method is highly preferred.
- 3. Method: TELEX AMVER's address: 127594 AMVERNYK. AMVER reports may be filed via TELEX using either satellite or HF radio. Ships must pay the tariffs for satellite communications. Radio TELEX reports, if filed via a coast station participating in the AMVER program may be sent free of charge. Participating coast stations are listed in the AMVER bulletin. TELEX is a preferred method when less costly methods are not available.
- 4. CW (MORSE CODE) AMVER's address: AMVER. This is the least preferred method for filing AMVER reports due to its high cost potential for error and the fact that CW usage and the number of coast stations supporting it are declining. CW reports may be filed free of charge via coast stations participating in the AMVER program.

Ship operators are requested to pass this information to their vessels as soon as possible. For more information regarding AMVER please contact Mr. Rick Kenney at Tel (212) 668-7764, Fax (212) 668-7684, E-mail: R.Kenney/amr@internet.uscg.mil

5. For further information regarding the issuance of this or other MARAD advisories, contact the Maritime Administration, Office of Ship Operations, Division of Operations Support, Code MAR-613, Room 2123, 400 Seventh Street SW, Washington DC 20590; telephone (202) 366-5735, facsimile (202) 366-3954.

MARAD ADVISORY NO. 98-5 (281415Z August 98) SUBJECT: WORLDWIDE ANTI-U.S. TERRORIST THREAT TO: OPERATORS OF U.S. FLAG AND EFFECTIVE U.S. CONTROLLED VESSELS

- 1. Since the bombings of the United States Embassies in Nairobi, Kenya and Dar Es Salaam, Tanzania on August 7, 1998, there has been a significant increase of threats and terrorist related information against official U.S. targets worldwide. A number of credible, specific threats have surfaced pointing toward possible future attacks against U.S. persons and property. None of these threats, however, have involved transportation or transportation infrastructure in the United States. Moreover, the recent arrest of Mohammed Sadiq Howaida, an alleged conspirator in the bombings of the Embassies, could prompt retaliation by enemies of the U.S. or their sympathizers.
- 2. In addition, on August 19, 1998, a coalition of Islamic extremist groups supported by terrorist financier Usama Bin Laden, issued a series of statements to the media threatening that "Strikes will continue from everywhere" against the United States. Bin Laden has cultivated and maintained an extensive network of operatives and sympathizers capable of launching attacks worldwide. These new threats follow several fatwas (religious decrees) issued earlier in 1998 by Bin Laden declaring it the obligation of every Muslim to attack official and civilian U.S. citizens whenever and wherever possible.
- 3. Finally, U.S. military strikes on August 20, 1998, against a chemical plant in Sudan and terrorist bases in Afghanistan are likely to inspire terrorism far removed from military operations. Middle eastern terrorist groups and sponsors will continue to have the greatest capability and geographic reach to attack U.S. citizens and property. Violent Islamic extremists, acting without guidance or support from states or established organizations, have already established an impressive track record of terrorist attacks, including some against U.S. citizens and property. Several of these groups have been active in the United States.
- 4. As a result of the actions cited above, the threat to U.S. interests worldwide has increased. Retaliation by terrorists or terrorist sympathizers is anticipated. We are currently not aware of any specific, credible information regarding terrorist threats in the United States. The greatest risk to U.S. citizens and property is in the Middle East and South Asia. Nevertheless, the Islamic extremist presence in the United States is growing and increases the potential domestic threat emanating from these elements.
- 5. Mariners should exercise caution and vigilance and obtain and evaluate current warning information from NIMA (National Imagery and Mapping Agency) Broadcast NAVAREA IV, XII, HYDROPAC and HYDROLANT warnings and the "Anti-Shipping Activity" section on the Navigation Information Network (NAVINFONET), as appropriate. Also, review and have available the procedures for "U.S. Merchant Marine Communications Call-up Procedures in Emergency Situations" and "Ship Hostile Action Report" found in NIMA Pub 117 "Radio Aids to Navigation." The

(52) MARAD ADVISORIES. (Continued).

- U.S. Department of Transportation has established a response center hotline at 1-800-424-0201 for reporting transportationrelated incidents, however this is not intended to replace the specific maritime channels cited above.
- 6. Cancel MARAD Advisory 96-10.
- 7. Vessel operators are requested to forward this advisory to their vessels, terminals and security officials as appropriate. Note that this advisory will subsequently be published in the NIMA "Weekly Notice to Mariners" and MARAD worldwide web
- 8. For further information regarding this advisory, contact the Maritime Administration, Office of Ship Operations, Code MAR-613, Room 2123, 400 Seventh Street SW, Washington DC 20590; telephone (202) 366-5735, facsimile (202) 366-3954; or internet e-mail: OPCENTR1@MARAD.DOT.GOV

MARAD ADVISORY NO. 98-6 (021758Z October 98) SUBJECT: THE PREVENTION AND REPORTING OF HOSTILE INCIDENTS DIRECTED AT MERCHANT SHIPS TO: OPERATORS OF U.S. FLAG AND EFFECTIVE U.S. CONTROLLED VESSELS

- 1. Hostile actions directed at merchant shipping are a present and growing problem. These hostile actions include piracy, theft and terrorism.
- 2. Several agencies, nationally and internationally, have been instituted or directed to assist in countering this problem. The first step in controlling the problem is to establish a reliable database of incidents to define the area and degree of the problem. Such a database has been instituted by the National Imagery and Mapping Agency (NIMA) as the anti-shipping activity message file (ASAM). Any individual, vessel or company with access to the NIMA NAVINFONET system (See NIMA Pub 117, Chapter 4) may receive information from, or send reports to the system. The service is free of charge, except for charges to connect with the U.S. commercial number.
- 3. Another report mentioned in chapter 4 of Pub 117, is the ship hostile action report (SHAR). NIMA has established SHAR procedures to disseminate information within the U.S. government on hostile or potentially hostile actions against U.S. merchant ships.
- 4. It should be noted that neither the ASAM nor SHAR reports are a distress message. U.S. and effective U.S. controlled (EUSC) vessels under attack or threat of attack may request direct assistance from the U.S. Navy by following the procedures in part II of chapter 4 of Pub 117.
- 5. The International Chamber of Commerce (ICC), International Maritime Bureau (IMB), International Maritime Organization (IMO), and INMARSAT established a regional Piracy Center in Kuala Lumpur, Malaysia. The center's operations are financed by voluntary contributions from shipping and insurance companies and the center's services are provided free of charge. The center operates on a 24-hour basis. The center receives reports of suspicious craft movements and reports of suspicious craft movements and reports of the center receives reports of suspicious craft movements and reports of the center operates on a 24-hour basis. piracy. The center issues warnings to vessels operating in these areas and alerts the appropriate law enforcement agencies. The center issues warnings and regular status reports of piracy via the SAFETYNET service of INMARSAT-C via the Pacific Ocean region satellite from the Singapore land earth station. The Regional Piracy Center can be reached at: Tel (011) 60-03-201-0014, Fax (011) 60-03-238-5769, Telex MA 31880 IMBPCI.
- 6. Countermeasures have been effectively used by vessels to deter piracy boardings and hinder theft. Piracy countermeasures should be included in the ship's security plan, exercised and utilized when approaching dangerous waters. Some general precautions include the following:
 - A. Be vigilant. Anticipate trouble.
 - B. Provide a general alarm signal to alert all crew members.
 - C. have water hoses under pressure with nozzles ready at likely boarding places when at sea and in port.
 - D. Illuminate sides, bows and quarters while running in threat areas and in dangerous ports. E. Keep a good a radar and visual lookout, including lookout aft.

 - F. Have searchlights available to illuminate suspected boarding parties.
 - G. Have signaling and communication equipment available for immediate use.
 - H. Maintain or increase speed and maneuver as navigational safety permits.
 - I. Don't be heroic if the boarders are armed.
- 7. Cancel MARAD Advisories 88-6 and 94-1.
- 8. Vessel operators are requested to forward this advisory to their vessels, terminals and security officials as appropriate. Note that this advisory will subsequently be published in the NIMA "Weekly Notice to Mariners" and MARAD worldwide web
- 9. For further information regarding this advisory, contact the Maritime Administration, Office of Ship Operations, Code MAR-613, Room 2123, 400 Seventh Street SW, Washington DC 20590; telephone (202) 366-5735, facsimile (202) 366-3954; or internet e-mail: OPCENTR1@MARAD.DOT.GOV

(53) NAVIGATION RULES, INTERNATIONAL-INLAND.

The latest edition of the Navigation Rules was published in July 1999. This book contains the International Regulations for Preventing Collisions at Sea, commonly called the 72 COLREGS, and the Inland Navigation Rules which supersede the old Inland Rules, Western Rivers Rules, Great Lakes Rules, and other Pilot rules. The book also includes sections on COLREGS

demarcation lines, penalty provisions, alternative compliance, and the Vessel Bridge-to-Bridge Radiotelephone Regulations. PENALTIES: All vessel operators, whether recreational or commercial, are required to understand and follow these Naviga-

tion Rules. Violation of the Navigation Rules or negligent operation of a vessel may result in civil penalties up to \$5000. CARRIAGE REQUIREMENT: The operator of each self-propelled vessel 12 meters or more in length is required to carry on board and maintain for ready reference a copy of the Inland Navigation rules (contained in this publication).

HOW TO ORDER: The Navigation Rules: International-Inland is available from the Government Printing Office for \$13.00. To order by telephone using VISA, MasterCard or Discover Card call (202) 512–1800, ask for the book by name and give stock number 050–012–00407–2, or mail check or money order payable to Superintendent of Documents, to Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

CHANGES: Changes are published, as they occur, in the Notice to Mariners and appear in Summary of Corrections, Volume 5. For copies of these changes consult back copies of Local Notice to Mariners. For questions concerning the Navigation Rules please write to: Commandant (G–MWV–3), U.S. Coast Guard, 2100 2nd Street S.W., Washington, D.C. 20593–0001. Telephone: (202) 267–0574. You may also submit your questions to our website http://www.uscg.mil/vtm/pages/rules.htm. (Supersedes N.M. 1(53)99) (USCG (G-MWV-3), Wash., D.C.; PUB0015/1999)

(54) IMPROPER USE OF STROBE LIGHTS, SEARCHLIGHTS AND DANGEROUS CARGO LIGHT.

STROBE LIGHTS:

The Coast Guard has received reports of the use of white strobe lights as "anticollision" lights and as fishing net markers. A white strobe light is a distress signal in Inland Waters and prohibited under International Rules (except for use as a distress sig-

white strobe light is a distress signal in Inland Waters and prohibited under International Rules (except for use as a distress signal on life jackets). Misuse of these lights may result in civil penalties up to \$5000.

SEARCHLIGHTS: Fishing vessels using searchlights while setting and recovering gear, and other vessels using searchlights, are reminded that improper use of searchlights violates both Inland and International Navigation Rules. Examples of violations include: (a) leaving searchlights lit constantly while underway, so as to interfere with visibility of navigation lights and (b) shining at other vessels so as to embarrass them and impair the night vision of other mariners.

DANGEROUS CARGO LIGHT: Warning: foreign vessels operating in the Far East, specifically in the Straits of Malacca, commonly use an all around red light to indicate carriage of a dangerous cargo. In addition, these vessels often use deck security lighting underway to deter piracy; this may obscure the vessel's running lights. U.S. vessels transiting these areas should be aware of these practices and plan accordingly.

NOTE: This notice does not prohibit vessels from using additional lights so long as they cannot be confused with or obscure

NOTE: This notice does not prohibit vessels from using additional lights so long as they cannot be confused with or obscure navigation lights. Mariners are cautioned that all types of high intensity lights, when used at sea, must be properly directed or adequately screened so as to not embarrass another vessel or be misinterpreted. When these lights are not being used for a specific task they should be extinguished. (Repetition N.M. 1(54)99)

(USCG (G-MWV-3), Wash., D.C.)

(55) GUIDELINES FOR WGS DATUM CONVERSION.

- 1. The following information is provided to assist navigators in converting geographic positions from World Geodetic System 1972 (WGS '72) to World Geodetic System 1984 (WGS '84) and vice versa.
- a. Positions obtained from satellite navigation systems or measured from charts referred to the World Geodetic System 1972 must be moved 0.01 minute eastward and 0.00 minute northward to be placed on the World Geodetic System 1984.
- b. Positions obtained from satellite navigation systems (or charts) referred to the World Geodetic System 1984 must be moved 0.01 minutes westward and 0.00 minutes southward to be placed on the World Geodetic System 1972.
- 2. Individuals who need somewhat more precise values may use the following tables to minimize the error due to the truncation of transformed coordinates.
- 3. Users with a need for the most accurate transformation from WGS '72 to WGS '84 may use the following transformation equations:

Latitude Shift

= $(4.5\cos \emptyset/ a \sin 1") + (f \sin 2 \emptyset/ \sin 1")$ = $0.1455\cos \emptyset + 0.0064\sin 2 \emptyset$ seconds northward

Longitude Shift = 0.554 seconds eastward

 \emptyset = latitude Where:

f = difference in flattening of the ellipsoids = 0.3121057×107 a = semi-major axis of WGS '72 ellipsoid = 6,378,135 meters.

(55) GUIDELINES FOR WGS DATUM CONVERSION. (Continued).

The datum shift from WGS '84 to WGS '72 is computed using the same equation but the direction of the computed shift is reversed—e.g. the latitude shift is southward and the longitude shift is westward.

4. Since the maximum shift only amounts to approximately 17 meters in longitude and 4 meters in latitude on the ground, the shift need not be used to plot positions on charts at scales smaller than 1:50,000.

POSITIONS REFERRED TO WORLD GEODETIC SYSTEM 1972 MUST BE MOVED AS INDICATED TO BE IN AGREEMENT WITH WORLD GEODETIC SYSTEM 1984

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80S
90S
        0.0000 MINUTES NORTH AND 0.0092 MINUTES EAST
```

POSITIONS REFERRED TO WORLD GEODETIC SYSTEM 1984 MUST BE MOVED AS INDICATED TO BE IN AGREEMENT WITH WORLD GEODETIC SYSTEM 1972

```
0.0000 MINUTES SOUTH AND 0.0092 MINUTES WEST
                0.0002 MINUTES SOUTH AND 0.0092 MINUTES WEST 0.0005 MINUTES SOUTH AND 0.0092 MINUTES WEST 0.0007 MINUTES SOUTH AND 0.0092 MINUTES WEST 0.0009 MINUTES SOUTH AND 0.0092 MINUTES WEST 0.0009 MINUTES SOUTH AND 0.0092 MINUTES WEST
85N
80N
75N
70N
                0.0011 MINUTES SOUTH AND 0.0092 MINUTES WEST 0.0013 MINUTES SOUTH AND 0.0092 MINUTES WEST
65N
60N
                0.0015 MINUTES SOUTH AND 0.0092 MINUTES WEST 0.0017 MINUTES SOUTH AND 0.0092 MINUTES WEST 0.0018 MINUTES SOUTH AND 0.0092 MINUTES WEST 0.0020 MINUTES SOUTH AND 0.0092 MINUTES WEST 0.0020 MINUTES SOUTH AND 0.0092 MINUTES WEST
55N
50N
45N
40N
35N
                0.0021 MINUTES SOUTH AND 0.0092 MINUTES WEST
                0.0022 MINUTES SOUTH AND 0.0092 MINUTES WEST 0.0023 MINUTES SOUTH AND 0.0092 MINUTES WEST
30N
25N
                0.0024 MINUTES SOUTH AND 0.0092 MINUTES WEST
```

(55) GUIDELINES FOR WGS DATUM CONVERSION. (Continued).

POSITIONS REFERRED TO WORLD GEODETIC SYSTEM 1984 MUST BE MOVED AS INDICATED TO BE IN AGREEMENT WITH WORLD GEODETIC SYSTEM 1972

```
0.0024 MINUTES SOUTH AND 0.0092 MINUTES WEST
10N
               0.0024 MINUTES SOUTH AND 0.0092 MINUTES WEST
              0.0024 MINUTES SOUTH AND 0.0092 MINUTES WEST
0.0024 MINUTES SOUTH AND 0.0092 MINUTES WEST
0.0024 MINUTES SOUTH AND 0.0092 MINUTES WEST
 5N
0N
              0.0024 MINUTES SOUTH AND 0.0092 MINUTES WEST
0.0023 MINUTES SOUTH AND 0.0092 MINUTES WEST
0.0022 MINUTES SOUTH AND 0.0092 MINUTES WEST
10S
15S
20S
               0.0021 MINUTES SOUTH AND 0.0092 MINUTES WEST
              0.0021 MINUTES SOUTH AND 0.0092 MINUTES WEST 0.0020 MINUTES SOUTH AND 0.0092 MINUTES WEST 0.0019 MINUTES SOUTH AND 0.0092 MINUTES WEST 0.0018 MINUTES SOUTH AND 0.0092 MINUTES WEST 0.0016 MINUTES SOUTH AND 0.0092 MINUTES WEST 0.0013 MINUTES SOUTH AND 0.0092 MINUTES WEST 0.0011 MINUTES SOUTH AND 0.0092 MINUTES WEST
30S
35S
40S
55S
              0.0011 MINUTES SOUTH AND 0.0092 MINUTES WEST 0.0009 MINUTES SOUTH AND 0.0092 MINUTES WEST 0.0008 MINUTES SOUTH AND 0.0092 MINUTES WEST
60S
65S
70S
              0.0006 MINUTES SOUTH AND 0.0092 MINUTES WEST
75S
              0.0004 MINUTES SOUTH AND 0.0092 MINUTES WEST
80S
               0.0000 MINUTES SOUTH AND 0.0092 MINUTES WEST
90S
```

(Repetition N.M. 1 (55)99) (NIMA)

(56) ANTI-SHIPPING ACTIVITIES MESSAGE.

The Anti-Shipping Activities Message (ASAM) database, a part of the Marine Navigation Department website and the webserver based Navigation Information Network (NAVINFONET), is a National Imagery and Mapping Agency service for mariners providing reports of hostile actions directed against ships. The ASAM database was developed at the request of the U.S. Interagency Working Group on Piracy and Maritime Terrorism. It contains random reports of various forms of aggression against shipping around the world. Events are categorized by date and by geographic area and are based on the NIMA subregion system. The user can submit an ASAM, with the full particulars of an incident to be reported, or search the existing ASAM database by user-defined queries via the Marine Navigation Department website (http://pollux.nss.nima.mil). Upon receipt of the ASAM at NIMA, the text is reviewed and evaluated for further action, edited, and stored in the ASAM database for access by all customers. The database can be used as a voyage planning tool by providing cautionary information to ship owners and masters concerning security conditions in and near ports and narrow channels around the world. Examples of ASAM Reports in this file include the ACHILLE LAURO incident, robberies of ships transiting the Malacca Straits, attacks on fishing boats and merchants ships coasting off Western Sahara, and certain events occurring in and around the Persian Gulf. When sending a hostile action report the user of ASAM should provide NIMA with as much of the following information as is possible:

- 1. Date of Occurrence;
- 2. Geographic Location;
- 3. Known or Suspected Aggressor;
- 4. Victim (Ship's) Name;
 5. A detailed description of the occurrence being reported.

For further information on the ASAM database users may contact (301) 227-3173 or write:

MARINE NAVIGATION DEPARTMENT ST D 44 NATIONAL IMAGERY AND MAPPING AGENCY 4600 SANGAMORE ROAD BETHESDA MD 20816-5003

Recent reports have stated there are 700 identifiable terrorist groups who have committed more than 8000 major acts of political violence since 1962. In one recent year there were 450 such actions against ships around the globe. Subregions that cover the crossroads of the world are more active with anti-shipping activities than some remote areas. Note that the ASAM file is only an indicator of hostile actions reported to NIMA and is not a complete listing of all hostile actions that have occurred worldwide. NIMA strongly urges the mariner to assist in the population of the ASAM database by sending reports of hostile

(Supersedes N.M. 1(56)99) (GIM)

(57) CAUTION ON ANNOUNCEMENT OF NEW CHARTS AND PUBLICATIONS.

CAUTION: DO NOT USE A NEW CHART OR PUBLICATION UNTIL IT IS ANNOUNCED IN NOTICE TO MAR-

INERS. There may be occasions when a new edition of a chart or publication is received prior to the official announcement of its release being published in Notice to Mariners. Since Notice to Mariners corrections are for specific editions of products, it is imperative that the user neither discard the previous edition nor use the new edition until this official announcement is received. Further, since Notice to Mariners corrections are for specific editions of

products, it is critical that the user update only the specifically-referenced product edition. Additionally, users of the NIMA Navigation Information Network (NAVINFONET) are advised that announcements of new editions in this system appear approximately two weeks ahead of the printed Notice to Mariners. This is also an official announcement and normally predates the actual availability of the new products.

(Repetition N.M. 1(57)99) (GIM)

(58) GLOBAL POSITIONING SYSTEM (GPS).

The Global Positioning System (GPS) is a satellite-based radionavigation system with continuous worldwide coverage. It provides navigation, position, and timing information to air, marine, and land based users. The GPS is operated and controlled by the Department of Defense (DoD) under Air Force management. Although originally intended for military use only, federal radionavigation policy has established that the GPS Standard Positioning Service will be available for civil use. GPS Initial Operational Capability (IOC) was established on December 8, 1993. At IOC, the GPS achieved its operational configuration for providing the GPS Standard Positioning Service (SPS). Full Operational Capability (FOC) to meet operational military functionality was achieved the 17, 1995. Computer programs are available from commercial sources so that interested users

functionality was achieved July 17, 1995. Computer programs are available from commercial sources so that interested users can determine the availability and quality of GPS coverage at their particular location.

The USCG is the Government interface for civil users of GPS and has established a Navigation Information Service (NIS) to meet the needs of the civil user. The NIS is a Coast Guard facility located in Alexandria, Virginia. It provides voice broadcasts, data broadcasts, and on-line computer-based information service, all of which are available 24 hours a day. NIS watchstanders

are also available 24 hours a day to handle telephone, fax, and mail inquiries. The information provided includes planned, current or recent satellite outages and constellation changes, user instructions and tutorials, other GPS-related information, system status and information about other Coast Guard provided

radionavigation systems, and general information about federal radionavigation policy and systems.

Whenever possible, advance notice of when the GPS satellites should not be used will be provided by the DoD and made available by the U.S. Coast Guard. Any planned disruption of the SPS in peacetime will be subject to a minimum 48-hour advance notice provided by the DoD to NIS. The NIS advisory services are updated whenever new information is received. NIS services are described below:

Watchstander is available 24 hours to answer phone (703) 313-5900 and fax (703) 313-5920. The NIS 24 hour voice recording provides access to a 90 second message of the current system status. Forecast outages, historical outages, and other changes in the GPS are included as time permits. The NIS 24-hour voice recording phone number is (703) 313-5907.

The Department of Commerce transmits recorded time information on WWV/WWVH 2.5, 10, 15, and 20 MHz frequencies.

During the 40–second interval between time ticks, navigation information is announced by voice. Listen at minute 14 & 15 on

WWV and minute 43 & 44 on WWVH for GPS status and current or forecast outages.

Internet access is available by FTP at ftp.navcen.uscg.mil and World Wide Web at http://www.navcen.uscg.mil.

The NIS disseminates GPS Advisory Broadcast Messages through USCG broadcast stations using VHF-FM voice, HF-SSB voice, and NAVTEX broadcasts. The broadcasts provide the GPS user in the marine environment with the current status of the

GPS satellite constellation, as well as any planned/unplanned system outages that could affect GPS navigational accuracy. NIMA broadcasts navigation information concerning the "high seas." Information is provided in message format via an established system of message dissemination. NIS provides the GPS Operational Advisory Broadcast information to NIMA for broadcast in NAVAREA, HYDROLANT, or HYDROPAC messages. These messages are generally geared to the deep draft

NIMA also publishes a Weekly Notice to Mariners (NTM) containing USCG Marine Information Broadcasts and NIMA

broadcast warnings for a seven–day period.

The NIS updates GPS information on the NIMA NAVINFONET Database. The database is extensive and the GPS portion contains information such as recent satellite almanac and health parameters, scheduled outages, and administrative data. Users must register off-line before they are allowed to use NAVINFONET. To register, contact the National Imagery and Mapping Agency at:

> MARINE NAVIGATION DEPARTMENT ST D 44 NATIONAL IMAGERY AND MAPPING AGENCY 4600 SANGAMORE ROAD BETHESDA MD 20816-5003

To comment on any of these services or ask questions about GPS status, contact the NIS at:

Commanding Officer U.S. Coast Guard NAVCEN 7323 Telegraph Road Alexandria, VA 22315-3998

NIS Phone: (703) 313-5900 FAX: (703) 313-5920

(58) GLOBAL POSITIONING SYSTEM (GPS). (Continued).

The Civil GPS Service Interface Committee (CGSIC) was established to address issues and problems that relate to the civil use of GPS. The CGSIC is the official interface between civil GPS users and the GPS operators (DoD). The CGSIC consists of a General Committee, an Executive Panel, and three Subcommittees:

1. Timing Information

2. International Information

3. U.S. States and localities

The CGSIC is chaired by the U.S. Department of Transportation Radionavigation and Positioning Staff. The U.S. Coast Guard Navigation Center (NAVCEN) is the deputy chair and administrator. Points of contact are:

> **CGSIC Executive Secretariat Commanding Officer CGSIC** U.S. Coast Guard NAVCEN 7323 Telegraph Road Alexandria, VA 22315-3998 Phone: (703) 313-5900 FAX: (703) 313-5920

E-mail: cgsic@smtp.navcen.uscg.mil

The program manager for all U.S. Coast Guard civil GPS activities is:

Commandant (G-OPN) U.S. Coast Guard 2100 2nd St. S.W. Washington, DC 20593-0001 Phone: (202) 267-0980 FAX: (202) 267-4427

(Supersedes N.M. 1(58)99)

(USCG (G-OPN-3), Wash., D.C.)

(59) SAFETY SATELLITE TELECOMMUNICATIONS SERVICES.

As a result of consultations between the International Maritime Organization and the International Maritime Satellite Organization, new safety related tariffs for INMARSAT-A and INMARSAT-C ship earth station users have been implemented by COMSAT and IDB AeroNautical's land earth stations. Ship-originated voice or data messages to the U.S. Coast Guard from INMARSAT-A or INMARSAT-C terminals in the following categories will be handled at no charge through these service providers:

Medical Assistance Calls involving grave and imminent danger situations, including MEDICO and MEDIVAC communica-

ions with the U.S. Coast Guard. These calls are identified by using Service Code 38.

Maritime Assistance Calls involving grave and imminent danger situations, including distress related rescue assistance communications with the U.S. Coast Guard. These calls are identified by using Service Code 39.

Navigation, Meteorological and Ice Hazard and Warning Reports

These include observed hazards to ships which to the ship's knowledge had not been included in warnings. Messages will normally report unforecast storm conditions (Beaufort force 10 or greater), ice accretion conditions on superstructures, reports of position and time of all ice sightings to the International Ice Patrol, floating derelicts, major aids to navigation irregularities, and other hazards to shipping such as uncharted shoals, rocks and obstructions. These calls are limited to INMARSAT-A telex or INMARSAT-C, and are identified by using Service Code 42.

Routing of Priority 3 Distress Alerts remains unaffected by these changes. Messages placed that are not in accordance with the above procedures will be billed at standard tariff charges. (Repetition N.M. 1(59)99) (USGC (G-SCT), Wash., D.C.)

(60) DIGITAL SELECTIVE CALLING DISTRESS ALERT RELAYS.

Digital selective calling (DSC) is a new capability being offered with some VHF and HF maritime radios, intended to initiate voice calls and provide distress alert information to the U.S. Coast Guard and other rescue coordination centers. DSC is a major element of the Global Maritime Distress & Safety System (GMDSS), an International Maritime Organization-mandated telecommunications system required to be carried on cargo and passenger vessels on international voyages, beginning February

Communications Area Master Station Portsmouth VA/NMN now operates MF and HF DSC, and can be reached using the Maritime Mobile Service Identity (MMSI) 003669995. Portsmouth also now operates Communications Station Boston's DSC service. Plans exist to install a coast-wide VHF DSC capability beginning after the year 2000. Until then, the Coast Guard cannot receive a VHF DSC distress alert unless a mariner with a DSC-compatible radio receives an alert and relays it to the Coast Guard. Mariners receiving a VHF distress alert should attempt to contact the vessel sending the distress alert and obtain information concerning the distress, and then contact the Coast Guard to pass on this information. The Coast Guard will treat these alerts as legitimate distress calls. Continue listening on the working channel to information. The Coast Guard will treat these alerts as legitimate distress calls. Continue listening on the working channel to ensure communications between the Coast Guard and ship in distress is established. Finally, be ready to provide further assistance if asked by the Coast Guard.

(Repetition N.M. 1(60)99)

(USCG (G-SCT), Wash., D.C.)

(61) VESSEL SQUAT IN SHALLOW WATER.

In August 1992, a 950 foot passenger liner ran aground in an area where the charted depth was 7 feet greater than the vessel's draft. One major contributing factor was that neither the master nor the pilot adequately judged the considerable squatting effect caused by high speeds in shallow water. This accident highlighted the fact that, while most mariners understand the general concept of vessel squat, the pronounced effect of squat in shallow water is often underestimated.

VESSEL SQUAT: As a vessel increases speed, the buoyancy distribution along the hull changes due to wave formation (e.g. the bow and stern wave system). Consequently the vessel squats, increasing the navigation draft of the vessel. The term "squat" generically describes the combination of sinkage (overall sinking of the hull) and trim (the bow up/down rotation of the hull affected by wave formation as well as normal weight distribution).

SHALLOW WATER EFFECTS: Because the formation of the bow wave is affected by the proximity of the bottom, the effects of squat become more pronounced in shallow water. The vessel may appear to ride up on the bow wave and the vessel's wake will be high and steep. The vessel will require substantially more revolutions to maintain the same speed. During sea trials with a 270 foot destroyer drawing 8 feet of water, the ship required 400 rpm to reach 22 kts in 100 feet of water, but nearly 500 rpm to maintain the same speed in 45 feet of water. As speed increases, most vessels squat by the stern, with the amount of squat increasing in a fairly linear manner with speed; however at excessive speeds in shallow water, a vessel may reach critical wave conditions (also called a critical Froude number). Here the bow wave formed may appear as a steep breaking wave extending nearly perpendicular to the ship from amidships or even further aft. Under these conditions, the ship may trim radically by the bow or stern. Where underkeel clearance is minimal, the movement of the hull form through the water forces the water between the hull and the bottom to increase velocity, in effect "sucking" the ship down closer to the bottom. This suction effect is accentuated at high speeds. In addition to squat and suction, the mariner should be aware that shallow water may increase turning diameter. Modeling of tankers has shown an increase in turning diameter of 60-100% in water less than 1.25 times the ship's draft. Hydrodynamic effects such as yawing and sheering should also be taken into account when determining a ship's speed in shallow and restricted waters

WARNING SIGNS OF EXCESSIVE SQUAT:

- -Vessel appears to be riding up on large bow wave extending nearly perpendicular from ship.
- —High, steep stern wave, may be above level of fantail.

—Excessive turns required to maintain speed.

Note: Many ships have fathometers mounted forward where clearance may be considerably greater than at the stern where

maximum squat is likely.

REGULATIONS: The Code of Federal Regulations requires that the person directing the movement of the vessel set the vessel's speed with consideration for the tendency of the vessel underway to squat and suffer impairment of maneuverability when there is small underkeel clearance [33 CFR 164.11(p)(3)]. In addition, the International Maritime Organization recommends that ships keep a maneuvering booklet on the bridge, which includes diagrams showing maximum squat at various speeds, and water depth/draft ratios for that particular vessel [Navigation Safety Inspection Circular 7–89].

For more information write:

Commandant, (G–MSE) U.S. Coast Guard 2100 2nd Steet S.W. Washington, D.C. 20593-0001 Telephone: (202) 267-2967

(Repetition N.M. 1(61)99)

(USCG(G-MSE), Wash., D.C.)

(62) PROMULGATION OF MARITIME SAFETY INFORMATION BY U.S. INFORMATION PROVIDERS.

The purpose of this information is to provide mariners with the details of the promulgation of Maritime Safety Information (MSI) via the Global Maritime Distress and Safety System (GMDSS) by U.S. information providers, namely the National

Imagery and Mapping Agency (NIMA), the U.S. Coast Guard (USCG), and the National Weather Service (NWS).

The equipment needed to receive MSI is a GMDSS type-approved Inmarsat-C transceiver for SafetyNET broadcasts via Inmarsat satellites and a NAVTEX receiver for Coastal Warnings. SafetyNET is an international service for the broadcast and automatic reception of MSI by means of direct printing through Inmarsat's Enhanced Group Call (EGC) system. NAVTEX is an internationally coordinated system for the automatic reception of MSI via MF 518 kHz. The area of coverage for the United States is NAVAREA/METAREA IV and XII for SafetyNET and for NAVTEX, approximately 200 nautical miles from each NAVTEX station (see Figure 1). Additionally, the NWS is providing further coverage for NAVAREA/METAREA XVI (Peru) for weather forecasts and warnings.

The major categories of MSI in the United States for both SafetyNET and NAVTEX are:

- a. navigational warnings (including electronic navigation system messages such as LORAN-C and GPS)
- b. meteorological warnings
- c. ice reports
- d. search and rescue information
- e. meteorological forecasts

The following table details the scheduled times for the U.S. information providers and what types of broadcasts are being sent. Figure 2 depicts the Inmarsat satellite footprints overprinted on the worldwide NAVAREA/METAREAS

In order to ensure that all relevant SafetyNET MSI is received before sailing, it is recommended that the Inmarsat

(62) PROMULGATION OF MARITIME SAFETY INFORMATION BY U.S. INFORMATION PROVIDERS. (Con-

C receiver remain in operation while the ship is in port. To receive SafetyNET traffic automatically, the ship's receiver must be set up properly at the start of the voyage:

a. select the appropriate satellite (AOR-W, AOR-E, POR, IOR)

b. enter extra NAVAREA/METAREA codes in addition to the one that the vessel is currently in, if desired

c. key in the ship's position and ensure a periodic update (at least every 12 hours is recommended). This determines the NAVAREA/METAREA that will be monitored. If the position is not updated for more than 12 hours, ONLY geographically addressed messages with priorities greater than routine within the entire ocean region will be printed out. For NAVTEX reception, the terminal automatically receives the nearest station's MSI by means of narrow band direct printing telegraphy on MF 518 kHz.

The repetition rates of SafetyNET and NAVTEX messages vary, depending on the type of broadcast and situation. NAVTEX messages are generally repeated at each scheduled time slot until canceled (usually every four hours). SafetyNET weather forecast messages from the NWS normally are sent once unless an unscheduled warning is being issued, in which case an echo is used. The echo is rebroadcasted six minutes after the initial transmission to give vessels which are transmitting at the time of the initial broadcast another opportunity to receive the message

NIMA promulgates all of its SafetyNET messages (which do not have a known cancellation within 24 hours of the initial broadcast) once each day until canceled. Those messages canceling others and those with a known expiration within 24 hours

are sent only once.

For search and rescue, the USCG determines the repetition of the broadcast depending upon the type of incident, area of the

incident, and known potential rescue vessels.

The USCG's International Ice Patrol, which sends SafetyNET messages concerning the status of ice in the Atlantic Ocean,

sends its traffic once

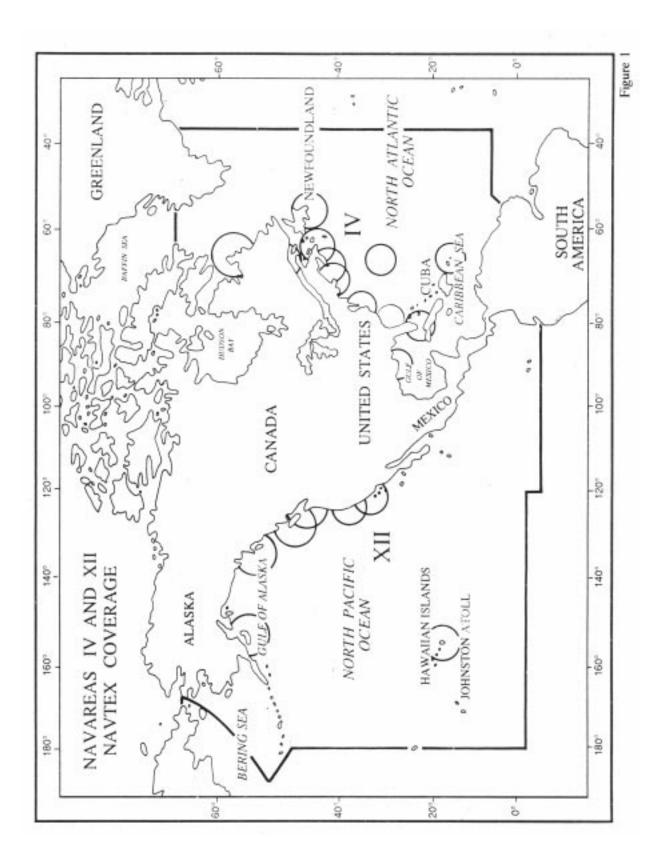
All type-approved Inmarsat SafetyNET and NAVTEX receivers are designed to suppress redundant copies of correctly copied messages For further discussion of GMDSS and its many aspects, users are encouraged to read the appropriate chapter in The American Practical Navigator (Bowditch) and/or in Publication 117, Radio Navigational Aids. Pub. 117 also lists in-depth worldwide GMDSS coverage. Other valuable GMDSS reference sources include:

NOAA Mariners Weather Log USCG AMVER Bulletins

USCG Local Notice to Mariners Many commercial maritime magazines

SCHEDULED BROADCAST TIMES

WHAT	WHO	WHEN(UTC)	HOW	NAVAREA/ METAREA	SATELLITE
High seas warnings and forecasts	NWS	0430, 1030, 1630, 2230	SafetyNET	IV	AOR-W
	NWS	0545, 1145, 1745, 2345		XII	AOR-W/POR
	NWS	0515, 1115, 1715, 2315		XVI	AOR-W
Long range navigational warnings	NIMA	1000, 2200	SafetyNET	IV	AOR-W
	NIMA	1030, 2230		XII	POR/AOR-W
Long range search and rescue	USCG	upon receipt	SafetyNET	IV/XII	AOR-W/POR
Coastal MSI	USCG	4 to 6 times daily for routine traffic; upon receipt for distress		Generally, within 200 miles of the coastline	None; see Pub 117 for stations and times
Status of ice in North Atlantic Ocean (Repetition N.M.		twice daily 0000, 1200	SafetyNET	IV	AOR-W (GIMM)



(63) COAST GUARD SAFETY INFORMATION AVAILABLE ON INTERNET.

The U.S. Coast Guard now provides radionavigation and Global Maritime Distress and Safety System Information, including current local notices to mariners, Global Positioning System (GPS) satellites, differential GPS, LORAN-C, worldwide NAV-TEX and Inmarsat SafetyNET schedules, U.S. NAVTEX service areas, U.S. SAR areas, HF narrow-band direct printing and radiotelephone channels used for distress and safety calling, information on GMDSS coast stations, AMVER and International Ice Patrol information, information concerning radiofacsimile and other maritime safety broadcasts on computer. Access to this computer can be made directly, at no charge, by Internet World Wide Web, Gopher, and anonymous File transfer Protocol (FTP), at the following addresses:

WWW address: http://www.navcen.uscg.mil

FTP address: ftp.navcen.uscg.mil

Information access by computer modem is also available through (703) 313-5910. A 24-hour watchstander is available at (703) 313-5900.

(Repetition N.M. 1(63)99) (USCG(G-SCT), Wash., D.C.)

(64) NATIONAL OCEAN CLAIMS.

The following list shows national claims of maritime jurisdiction. Publication of this material is solely for information relative to the navigational safety of shipping and in no way constitutes legal recognition by the United States. The information has been compiled from the best available sources.

Country	Territorial	Fisheries	Contiguous	Continental
	Sea	or Economic	Zone	Shelf
		Zone		
Albania	12*			200m or E
Algeria	12*	32-52		
Angola	12	200	24	
Antigua and Barbuda **	12*	200	24	200NM or CM
Argentina	12 (1)	200	24	200NM or CM
Australia	12 (2)	200	24	200NM or CM
The Bahamas **	12	200		200m or E
Bahrain	12		24	
Bangladesh	12*	200	18 (3)	CM
Barbados	12*	200		
Belgium	12	200 (4)		CS (4)
Belize	12 (5)	200		
Benin	200			
Bosnia-Herzegovina	(6)			
Brazil	12* (7)	200 (7)	24	
Brunei	12	200		
Bulgaria	12*	200	24	200m or E
Burma	12* (8)	200	24 (8)	200NM or CM
Cambodia	12*	200	24 (9)	200NM

(64) NATIONAL OCEAN CLAIMS. (Continued). Cameroon 12				
Canada	12 (10)	200	24	200NM or CM
Cape Verde **	12*	200	24	
Chile	12	200	24	200/350NM
China	12*	200	24 (11)	CS
Colombia	12	200		200m or E
Comoros **	12	200		
Congo	200*	(12)		
Cook Islands	12	200		200NM or CM
Costa Rica	12	200		200m or E
Cote d'Ivoire	12	200		200NM
Croatia	12*			200m or E
Cuba	12 (13)	200		
Cyprus	12			200m or E
Denmark	12* (14)	200	4	200m or E
Djibouti	12 (15)	200	24	
Dominica	12	200	24	
Dominican Republic	6 (16)	200	24	200NM or CM
Ecuador	200 (17)			(17)
Egypt	12* (18)	200	24 (18)	200m or E
El Salvador	200 (19)			
Equatorial Guinea	12	200		
Eritrea	(20)			
Estonia	12	(21)		
Federated States of Micronesia	12	200		
Federal Republic of Yugoslavia	(68)			
Fiji **	12	200		200m or E
Finland	12*(22)	12	6	200m or E
France	12 (23)	200 (23)	24	200m or E
Gabon	12	200	24	
Gambia, The	12	200	18	
Georgia	(24)			
Germany	12 (25)	200		200m or E
Ghana	12	200	24	200NM
Greece	6 (26)			200m or E
Grenada**	12*	200		

(64) NATIONAL OCEAN CLAIMS. (Continued).

	,			
Guatemala	12 (27)	200		200m or E
Guinea	12	200		
Guinea-Bissau	12	200		
Guyana	12*	200		200NM or CM
Haiti	12 (28)	200	24 (28)	E
Honduras	12 (29)	200	24	200NM
Iceland	12	200		200NM or CM
India	12*	200	24 (30)	200NM or CM
Indonesia **	12*	200		
Iran	12*	(31)	24 (31)	(31)
Iraq	12			CS
Ireland	12	200		CS
Israel	12			E
Italy	12 (32)			200m or E
Jamaica**	12	200		200m or E
Japan	12 (33)	200	24	CS
Jordan	3			
Kenya	12 (34)	200		200m or E
Kiribati **	12	200		
Korea, North (DPRK)	12* (35)	200	50 (35)	
Korea, South (ROK)	12* (36)	200	24	CS
Kuwait	12			
Latvia	12	200		200m or E
Lebanon	12			
Liberia	200			
Libya	12* (37)			CS
Lithuania	12			
Madagascar	12	200	24	200NM (38)
Malaysia	12	200		200m or E
Maldives	12*	37/310	24	
Malta	12*	25	24	200m or E
Marshall Islands **	12	200	24	
Mauritania	12 (39)	200	24	200NM or CM
Mauritius	12*	200		200NM or CM
Mexico	12	200	24	200NM or CM
Monaco	12			

(64) NATIONAL OCEAN CLAIMS. (Continued).

(* -)	(
Morocco	12	200	24	200m or E
Mozambique	12	200	24	
Namibia	12	200	24	
Nauru	12	200		
Netherlands	12* (40)	200		
New Zealand	12 (41)	200 (41)		200NM or CM
Nicaragua	200*		25 (42)	
Nigeria	12*	200		200m or E
Niue	12	200		
Norway	4	200	10	E
Oman	12	200	24	
Pakistan	12* (43)	200	24 (43)	200NM or CM
Palau	3	200		
Panama	12(44)	200	24	CS
Papua New Guinea **	12	200		200m or E
Peru	200 (45)			200
Philippines **	* (46)	200		E
Poland	12* (47)	(47)		
Portugal	12 (48)	200	24	200m or E
Qatar	12	(49)	24	CS
Romania	12*	200	24	200m or E
Russia	12	200		200m or E
Saint Kitts and Nevis	12	200	24	200NM or CM
Saint Lucia	12	200	24	200NM or CM
Saint Vincent and the Grenadines ** Samoa	12* 12	200 200	24	200NM or CM
Sao Tome and Principe **	12	200		
Saudi Arabia	12		18 (50)	CS
Senegal	12	200	24	200NM or CM
Seychelles	12*	200		200NM or CM
Sierra Leone	200			200m or E
Singapore	3	12		
Slovenia	(51)			
Solomon Islands **	12	200		200NM
Somalia	200*			
South Africa	12	200	24	200m or E

(64) NATIONAL OCEAN CLAIMS. (Continued).

Spain	12	200 (52)	24	200m or E
Sri Lanka	12* (53)	200	24 (53)	200NM or CM
Sudan	12*		18 (54)	200m or E
Suriname	12	200		
Sweden	12(55)	(55)	(55)	200m or E
Syria	35*		41 (56)	200m or E
Tanzania	12	200		
Thailand	12 (57)	200		200m or E
Togo	30	200		
Tonga	12 (58)	200		200m or E
Trinidad and Tobago **	12	200	24	200NM or CM
Tunisia	12 (59)		24	
Turkey	(60)	200 (60)		
Tuvalu **	12	200	24	
Ukraine	12	200		200m or E
United Arab Emirates	12*	200 (61)	24	200m or E
United Kingdom	12	200 (62)		200m or E
United States	12	200 (63)	12	200m or E
Uruguay	12 (64)	200	24	200m or E
Vanuatu **	12	200	24	200NM or CM
Venezuela	12	200	15 (65)	200m or E
Vietnam	12* (66)	200	24 (66)	200NM or CM
Yemen	12* (67)	200	24 (67)	200NM or CM

Abbreviations:

CS - Continental Shelf (no specified limits) CM - Continental Margin

CM - Continental Margin E - Limit of Exploitation m - meters (depth) NM - nautical miles

FOOTNOTES

Security Zone - A state claim to control activity beyond its territorial sea for security reasons unrelated to that state's police powers in its territory, including its territorial sea. This Summary lists only those Security Zones which presently claim to restrict navigation and overflight activities conducted exclusively beyond their claimed territorial seas. A claim of right of surveillance beyond the territorial sea or a claim of the right of "hot pursuit" in enforcing violations of law which occur in a state's territorial sea, inland waters, or land territory does not constitute a claimed Security Zone.

Fishery zones not extending beyond a claimed territorial sea or EEZ are encompassed within the territorial sea or EEZ and not listed separately.

^{*}Indicates a state which requires advance permission or notification for innocent passage of warships in the territorial sea. The United States does not recognize this requirement.

^{**}Indicates an archipelagic state.

(64) NATIONAL OCEAN CLAIMS. (Continued).

Many coastal nations have established straight baselines or have asserted historic waters claims. These footnotes mention some of the more significant ones. It exceeds the scope of this Summary, however, to provide an exhaustive list of baseline and historic waters claims. Accordingly, users should refer to other sources of information to obtain a complete compendium of maritime claims.

- 1. Argentina. Claims San Matias, Nuevo and San Jorge Gulfs as internal waters and claims, jointly with Uruguay, the Rio de la Plata estuary as internal waters.
- 2. Australia. Claims Anxious, Rivoli, Encounter and Lacepede Bays as historic waters.
- 3. Bangladesh. Contiguous Zone also considered a Security Zone.
- 4. Belgium. Fishery zone and CS extend to median line equidistant from baseline of neighbors.
- 5. Belize. From the mouth of the Sarstoon River to Ranguana Cay, Belize's territorial sea is 3NM; according to Belize's Maritime Areas Act, 1992, the purpose of this limitation is "to provide a framework for the negotiation of a definitive agreement on territorial differences with the Republic of Guatemala."
- 6. Bosnia-Herzegovina. No information on maritime claims is available.
- 7. Brazil. Claims to require permission for more than 3 warships of same flag to be in territorial sea at same time. Military exercises can be carried out in EEZ only with Brazil's consent.
- 8. Burma. Claims as internal waters all waters inside a 223NM baseline closing Gulf of Martaban as well as waters inside straight baselines connecting coastal islands. Contiguous Zone also considered a Security Zone.
- 9. Cambodia. Contiguous Zone also considered a Security Zone.
- 10. Canada. Claims as internal waters all waters between its islands in the Arctic; also claims Hudson Bay as a historic bay.
- 11. China. Contiguous Zone also considered a Security Zone.
- 12. Congo. Fishery zone limits to be fixed in coordination with neighboring states.
- 13. Cuba. Claims straight baselines enclosing varying distances of water between Cape Francis, the Isle of Pines (notable are those enclosing 21 35.6'N and 79 50.5'W), Cape Breton and Cape Cruz as internal waters.
- 14. Denmark. No prior notification required in straits, unless more than 3 warships at once. Includes Greenland and Faroe Islands. Straight baselines have the effect of enclosing waters between the Faroe Islands. Drogden and Hollander Deep claimed as internal waters.
- 15. Djibouti. Nuclear-powered vessels and vessels transporting nuclear materials or other radioactive substances are required to give notice prior to entering territorial sea.
- 16. Dominican Republic. Claims Samana, Ocoa, Neiba, Escocesa and Santo Domingo Bays as historic bays; Samana, Ocoa and Neiba bays qualify as juridical bays.
- 17. Ecuador. Straight baselines have the effect of enclosing waters between the Galapagos Islands. Claims right to enforce environmentally-based navigational restrictions in the vicinity of the Galapagos. Beyond 200NM, CS claimed along the undersea Carnegie mountain range (measured 100 miles from the 2500m-depth isobath).
- 18. Egypt. Contiguous Zone also considered a Security Zone. Claims right to prior permission for entry of nuclear-powered vessels or vessels carrying nuclear materials.
- 19. El Salvador. Claims the right to exercise sovereignty and jurisdiction over the sea, the seabed and seafloor to 200 miles. Claims Gulf of Fonseca as a historic bay.
- 20. Eritrea. No information on maritime claims is available.
- 21. Estonia. Fishery zone limits to be fixed in coordination with neighboring states.
- 22. Finland. In the Gulf of Finland territorial sea is 3NM.
- 23. France. Territorial sea limits apply to all French dependencies. EEZ claim includes the following French dependencies: Clipperton, French Guiana, French Polynesia, Guadeloupe, Glorious Archipelago, Juan de Nova and the Europa Bassas, Kerguelen Island, Martinique, New Caledonia, St. Pierre and Miquelon, Tromelin Islands, and Wallis and Futuna Islands.
- 24. Georgia. No information on maritime claims is available.
- 25. Germany. The Federal Republic of Germany and the German Democratic Republic (GDR) unified on October 3, 1990.

(64) NATIONAL OCEAN CLAIMS. (Continued).

- 26. Greece. Territorial airspace claim extends to 10NM for control of civil aviation.
- 27. Guatemala. Claims Gulf of Amatique as a historic bay.
- 28. Haiti. Draws territorial sea limits in a manner which implies straight baselines including across the mouth of the Gulf of Gonave. Contiguous Zone also considered a Security Zone.
- 29. Honduras. Claims Gulf of Fonseca as a historic bay.
- 30. India. Contiguous Zone also considered a Security Zone. Claims Gulf of Mannar and Palk Bay as historic waters.
- 31. Iran. Claims security jurisdiction in Contiguous Zone. Fishery zone and CS extend to median line equidistant from baseline of neighbors.
- 32. Italy. Claims the Gulf of Taranto as a historic bay.
- 33. Japan. Claims straight baselines. A high seas corridor remains in 5 "international straits": Tsugaru, Soya, Osumi and East and West channels of Tsushima.
- 34. Kenya. Established straight baseline system. Claims Ungwana Bay as a historic bay.
- 35. Korea, North (DPRK). Measures claims from claimed straight baselines, not coastline. Claims a 50/200NM Security Zone within which all foreign vessels and aircraft are banned without permission; it extends to 50NM in the Sea of Japan and to the limit of EEZ in the Yellow Sea.
- 36. Korea, South (ROK). Claims straight baselines. A high seas corridor remains in Korea Strait.
- 37. Libya. Claims the Gulf of Sidra as a historic bay. All merchant ships required to give prior notice of innocent passage.
- 38. Madagascar. CS 200NM or 100NM from 2500m-depth isobath.
- 39. Mauritania. Claims 89NM straight baseline from Cape Blanc to Cape Timiris.
- 40. Netherlands. Considers the Western Shelde internal waters through which passage requires prior permission. Includes Aruba and the Netherlands Antilles.
- 41. New Zealand. Includes Tokelau. Prohibits entry of nuclear-powered and nuclear armed ships into its ports.
- 42. Nicaragua. Contiguous Zone also considered a Security Zone.
- 43 Pakistan. Foreign supertankers, nuclear-powered ships and ships carrying nuclear materials are required to give prior notification for entry into territorial sea. Contiguous Zone also considered a Security Zone.
- 44. Panama. Claims Gulf of Panama as a historic bay.
- 45. Peru. 200 mile territorial sea is without prejudice to freedom of international communication, "in conformity with the laws and treaties ratified by the state."
- 46. Philippines. In addition to its claim of archipelagic waters, claims as maritime territorial waters areas embraced within the lines described in the 1898 Treaty of Paris as subsequently modified. The resulting territorial sea varies from one-half to 285NM in width.
- 47. Poland. Claims a closing line across Bay of Gdansk and a fishing zone to the median line in the Baltic. EEZ is determined by lines connecting extreme points of specified lateral limits.
- 48. Portugal. Established straight baselines for various areas along continental coast and Madeira and Azores island groups. Claims Tagus and Sado Bays and associated bays as historic waters.
- 49. Qatar. Extends to median line with neighboring states.
- 50. Saudi Arabia. Contiguous Zone also considered a Security Zone.
- 51. Slovenia. No information on maritime claims is available.
- 52. Spain. Claims 200NM Economic Zone in Atlantic only.
- 53. Sri Lanka. Contiguous Zone also considered a Security Zone. Claims Palk Bay, Palk Strait and Gulf of Mannar as historic waters.
- 54. Sudan. Contiguous Zone also considered a Security Zone.
- 55. Sweden. Territorial sea claim is less than 12NM (but varying) in certain areas of the Skagerrak, the Kattegat and the Baltic.

(64) NATIONAL OCEAN CLAIMS. (Continued).

- 56. Syria. Claims Security Zone 6 miles beyond territorial sea limit.
- 57. Thailand. Claims Bight of Thailand as a historical bay to 12 35'45"N.
- 58. Tonga. Claims 12NM territorial sea for Minerva Reef.
- 59. Tunisia. Claims straight baselines enclosing Gulfs of Yunis and Gabes as internal waters.
- 60. Turkey. Claims a 12NM territorial sea in the Black Sea and in the Mediterranean and a 6NM territorial sea in the Aegean. EEZ is claimed in the Black Sea.
- 61. United Arab Emirates. EEZ extends to agreed CS boundaries or to median lines.
- 62. United Kingdom. Fishery claims include Ascension, Bermuda, British Virgin Islands, Cayman Islands, Ducie and Oneo Islands, Henderson Island, Pitcairn Island, St. Helena, Tristan de Cunha, Turks and Caicos Islands. Has also established a fishing zone around the Falkland/Malvinas Islands; although 200NM wide, the zone is only enforced to a distance of 150NM.
- 63. United States. EEZ applies to Northern Marianas (consistent with the Covenant), American Samoa, Guam, Puerto Rico, U.S. Virgin Islands and other U.S. possessions and territories.
- 64. Uruguay. Claims a 200NM territorial sea, but specifically guarantees freedom of navigation and overflight in the area beyond 12NM. In the 12-200NM portion of the zone, only foreign fishing is restricted. Also claims, jointly with Argentina, the Rio de la Plata estuary as internal waters.
- 65. Venezuela. Claims 15NM Security Zone.
- 66. Vietnam. Claims half of the Gulf of Tonkin as historic internal waters and uses straight baselines for measuring the territorial sea. Baselines purport to enclose portions of the South China Sea up to approximately 75NM in width as internal waters. Contiguous Zone also considered a Security Zone.
- 67. Yemen. Claims notice requirement for warships, nuclear-powered vessels and vessels transporting nuclear materials or other radioactive substances prior to entering the territorial sea. Contiguous Zone also considered a Security Zone.
- 68. Yugoslavia, Federal Republic of (Serbia and Montenegro). The United States has not recognized Serbia and Montenegro as a state. No information on maritime claims is available.

(Supersedes N.M. 1(64)99) (PUB0015/1999)

(65) U.S. ECONOMIC SANCTIONS: CONCERNS FOR MARINERS.

The Office of Foreign Assets Control ("OFAC") of the U.S. Treasury Department administers a wide range of sanctions programs involving Cuba, North Korea, Libya, Iraq, Iran, Sudan, the Governments of the Federal Republic of Yugoslavia (Serbia and Montenegro) and the Government and territory of the Republic of Serbia, the UNITA faction and its controlled territory in Angola, the Taliban and its controlled territory in Afghanistan, transactions with designated terrorists, narcotics traffickers and foreign terrorist organizations, importation from foreign persons involved in the proliferation of weapons of mass destruction, new investment in Burma (Myanmar) and the receipt of certain funds from the Government of Syria. Many of the programs significantly impact mariners.

GENERAL CONCERNS FOR MARINERS:

U.S.-registered vessels and other vessels subject to U.S. jurisdiction, U.S. individuals (citizens or residents wherever located, and individuals located in the United States) and U.S. businesses (including their foreign branches and foreign firms' U.S. locations) are generally prohibited from providing maritime transportation, vessel chartering, brokerage services, marine insurance, reinsurance services involving:

- shipments of goods where the country of origin is a sanctions target;
- shipments of goods or carriage of passengers to or from sanctioned countries;
- the carriage of passengers who are nationals of Cuba or North Korea;
- the shipment of goods in which there is an interest of the governments or a Specially Designated National of a country subject to sanctions or, in the case of Cuba and North Korea, an interest of any of their nationals;
- waterborne transportation services to unapproved locations in Angola;
- the purchase of services or bunkering at ports located within the territory of most countries subject to U.S. sanctions.

It is important to note that U.S. sanctions programs vary considerably and what is prohibited with regard to one country may be permitted or licensable with regard to another.

(65) U.S. ECONOMIC SANCTIONS: CONCERNS FOR MARINERS. (Continued).

GENERAL TRADE RESTRICTIONS BY COUNTRY:

The following summary provides a broad overview of trade sanctions administered by OFAC. In exceptional cases, where it is found consistent with U.S. policy, licenses to engage in an otherwise prohibited transaction may be granted by OFAC. In certain cases, licenses from the U.S. Department of Commerce or another federal agency must also be obtained. Because sanctions programs are quite dynamic, you should check with OFAC and the Executive orders and regulations governing a particular sanctions program for specific aspects of, or changes to, the restrictions summarized below.

- CUBA- No exportation or reexportation of goods, services, or technology to Cuba, except food, medicine, medical equipment, or agricultural commodities licensed by the U.S. Department of Commerce; no importation of goods or services from Cuba; no dealing in Cuban-origin goods or in property in which the Government of Cuba or a Cuban national has an interest; no brokering of Cuban trade contracts; no use, brokering, or insuring of Cuban-owned vessels. No vessel that enters a Cuban port to engage in the trade of goods or the purchase of services may enter a U.S. port load or unload freight for a period of 180 days following departure from Cuba. No vessel carrying goods or passengers to or from Cuba or carrying goods in which Cuba or a Cuban national has an interest may enter a U.S. port with such goods or passengers on board. Travel-related transactions in Cuba require an OFAC license.
- NORTH KOREA- No exportation or reexportation of goods, services, or technology to North Korea; except goods and
 technology licensed by the U.S. Department of Commerce; no importation of goods or services from North Korea; no
 dealing in North Korean-origin goods or in property in which the Government of North Korea or a North Korean national
 has an interest; no brokering of North Korean trade contracts; no use, brokering, or insuring of North Korean-owned vessels.
- LIBYA- No exportation or reexportation of goods, services, or technology to Libya, except agricultural commodities and
 products, medicine, or medical equipment licensed by OFAC; no importation of goods or services from Libya; no dealing
 in Libyan-origin goods for export to another country or in property in which the Government of Libya has an interest; no
 brokering of Libyan trade contracts. Travel and transportation related transactions to, from, and in Libya require an OFAC
 license.
- IRAN- No exportation or reexportation of goods, services, or technology to Iran; except agricultural commodities and
 products, medicine, or medical equipment licensed by OFAC (general or specific license); no importation of goods or services from Iran; no dealing in Iranian-origin goods; no facilitation of foreign nationals' transactions with Iran; no brokering of Iranian trade contracts.
- IRAQ-No exportation or reexportation of goods, services, or technology to Iraq; no importation of goods or services from
 Iraq; no dealing in Iraq-origin goods or in property in which the Government of Iraq has an interest; no brokering of Iraqi
 trade contracts; no transfers to persons in Iraq; participation in UN "Oil for Food Program" involving purchases of oil and
 sales of food and medicine requires an OFAC license. Travel and transportation-related transactions to, from, and in Iraq
 require an OFAC license.
- SUDAN- No exportation or reexportation of goods, services, or technology to Sudan, except agricultural commodities and products, medicine, or medical equipment licensed by OFAC; no importation of goods or services from Sudan; no dealing in Sudanese-origin goods or in property in which the Government of Sudan has an interest; no facilitation of foreign nationals' transactions with Sudan; no brokering of Sudanese trade contracts.
- FEDERAL REPUBLIC OF YUGOSLAVIA (SERBIA AND MONTENEGRO) AND THE REPUBLIC OF SER-BIA-No exportation or importation of goods, services, or technology to or from the Republic of Serbia or the Governments of the Federal Republic of Yugoslavia (Serbia & Montenegro) and the Republic of Serbia, except agricultural commodities and products, medicine, or medical equipment licensed by the U.S. Department of Commerce; no dealings in property in which the Government of the Federal Republic of Yugoslavia (Serbia & Montenegro) or the Republic of Serbia has an interest; no brokering of trade contracts. OFAC general licenses exist for most trade with the Government and Republic of Montenegro and with the province of Kosovo.
- ANGOLA (UNITA)- No exportation of arms, arms materiel, petroleum, petroleum products, aircraft, or aircraft components, mining equipment, motorized vehicles, watercraft, spare parts for motorized vehicles or watercraft, mining services, or ground or waterborne transportation services to UNITA or unapproved locations in Angola; no dealings in property in which UNITA has an interest; no importation of uncertified diamonds from Angola.
- **AFGHANISTAN** (Taliban) No importation or exportation of goods or services to or from the Taliban or to or from areas of Afghanistan controlled by the Taliban, unless authorized by OFAC; no dealing in goods in which the Taliban has an interest.

(65) U.S. ECONOMIC SANCTIONS: CONCERNS FOR MARINERS. (Continued).

- BURMA (Myanmar)- No new investments in Burma; most trade in goods, services and technology is exempt.
- SYRIA- No receipt of unlicensed donations from the Government of Syria by U.S. persons; no financial transactions in which a U.S. person knows or has reasonable cause to believe there is a risk of furthering terrorist acts in the United States; normal commercial transactions not affected.
- TERRORIST AND NARCOTIC TRAFFICKERS- No dealings in property in which a Specially Designated Terrorists
 or Specially Designated Narcotics Trafficker has an interest; no financial, logistical, or other support for a Specially Designated Terrorist or Narcotics Trafficker.
- **WEAPONS OF MASS DESTRUCTION** No importation of goods, technology, or services produced or provided by foreign persons designated by Secretary of State for having promoted the proliferation of weapons of mass destruction.

OFAC JURISDICTION:

All U.S. citizens and permanent residents, companies organized in the United States, foreign branches of U.S. companies, individuals and entities located in the United States (including domestic affiliates of foreign companies), are subject to OFAC regulations. Furthermore, foreign subsidiaries of U.S. companies must comply with the sanctions against Cuba and North Korea. Such persons may not facilitate or assist foreign companies (e.g., as financiers, brokers or other intermediaries) with transactions in which they themselves could not participate directly and U.S. employees of foreign companies must ensure that they do not engage in transactions on behalf of their employer which would be prohibited if the company was American. Specifically pertaining to mariners, vessels subject to U.S. jurisdiction include:

- U.S. flag vessels;
- vessels owned or controlled by U.S. companies;
- vessels within U.S. waters;
- for sanctions against Cuba and North Korea vessels owned or controlled by foreign subsidiaries of U.S. companies.

SPECIALLY DESIGNATED NATIONALS:

U.S. sanctions programs go far beyond the borders of target countries. The U.S. Government has identified and listed thousands of front organizations and individuals known as "Specially Designated National," or SDNs, to further the effectiveness of the sanctions regimes. SDNs are individuals and entities located anywhere in the world that are owned or controlled by, or acting for or on behalf of, the Government of a sanctioned country, as well as designated international narcotics traffickers and terrorists targeted by the United States Government. The list also includes the names of vessels which have been determined to be owned or controlled by the targeted countries. These vessels, companies, individuals and banks may not appear to be related to the sanctions targets they actually represent. Many of these SDNs have innocuous names and are located in countries with which the United States enjoys harmonious trade relations, which is why it is important to carefully screen all parties involved in trade transactions using OFAC's SDN list. All property and interests in property of SDNs that come into the possession of a U.S. corporation must be blocked.

SANCTIONS VIOLATIONS-THE PENALTIES:

Potential civil and criminal penalties, as well as the associated negative publicity resulting from a company's violation of U.S. sanctions, can prove to be strong motivational factors in getting a company to devote the appropriate time and resources to implementing quality OFAC compliance procedures. Civil penalties range from \$11,000 to \$275,000 per violative transaction; criminal violations of the statutes administered by OFAC can result in corporate and personal fines of up to \$1 million and 12 years in jail. Vessels involved in trade contrary to the sanctions regulations may be subject to seizure and forfeiture.

(65) U.S. ECONOMIC SANCTIONS: CONCERNS FOR MARINERS. (Continued).

OFAC LICENSING:

OFAC has the authority to authorize transactions that would otherwise be prohibited under specific sanctions provisions. OFAC's Licensing Division reviews all license applications on a first-in, first-out, case-by-case basis and issues or denies licenses based on U.S. foreign policy and national security goals. Filing a complete application will expedite processing, but there are no guarantees that a license will be issued just because one is requested. The OFAC Licensing Division can be reached at (202) 622-2480 by telephone and (202) 622-1657 by fax for further licensing information, applications or about the status of a pending application.

KEEPING CURRENT ON OFAC SANCTIONS PROGRAMS:

All of OFAC's public information documents are updated whenever there is a change to an existing program, or when a new program is announced. Although OFAC does not maintain a mailing list, a one time "starter kit" of essential OFAC information can be sent to a company when it is in the initial stages of developing or incorporating OFAC compliance procedures into its existing export controls. It is strongly recommended that you stay current on OFAC sanctions programs by utilizing some of the following user-friendly electronic resources:

- World Wide Web (WWW) Home Page on the Internet- All of OFAC's program "brochures", as well as SDN information, are available free in downloadable camera-ready Adobe Acrobat "*.PDF" format over the Treasury Department's World Wide Web Server. At the top of the home page, the date of OFAC's last change is displayed and a "What's New" file summarizes the latest sanctions developments. Access is also provided to statutes, United Nations resolutions, Executive Orders, actual Federal Register notices and the entire Code of Federal Regulations dealing with OFAC. OFAC's Home Page site is <http://www.treas.gov/ofac>.
- **OFAC Fax-on-demand Service** OFAC operates a free automated fax-on-demand service, which can be accessed 24 hours a day, seven days a week, by dialing 202/622-0077 from any touch tone phone and following voice prompts. The Index lists all of the documents OFAC makes available by fax and indicates the date each document was last updated.
- U.S. Maritime Administration's Marlinespike Bulletin Board System- The U. S. Maritime Administration's Web site at <>> contains a special link to OFAC's brochures and information including a flashing indicator of latest updates.
- U.S. Government Printing Office's The Federal Bulletin Board- The U.S. Government Printing Office operates a free bulletin board called "The Federal Bulletin Board" which can be accessed 24 hours a day, 7 days per week, by direct dialing 202/512-1387 from a modem using any communications software and using the Internet to connect to <<fedbbs.access.gpo.gov>>.
- U.S. Commerce's National Trade Data Bank (NTDB)- The U.S. Department of Commerce operates a CD-Rom service providing a massive amount of international trade information on a monthly basis to small and medium sized companies. There is a nominal charge for a subscription. The CD-Rom service is also available free of charge at Commerce offices nationwide as well as nearly 1,000 Federal depository libraries. OFAC data is in fully searchable ASCII format. For information, call 202/482-1986.
- U.S. Customs Service's Customs Electronic Bulletin Board- The U.S. Customs Service maintains a free Customs Electronic Bulletin Board geared especially toward Customs House Brokers. OFAC's information is available as a date-specific self-extracting DOS file ("OFAC*.EXE" in File Area #15, "Customs Extra!"). Modem access is at 703/440-6155 with voice system support at 703/440-6236.

QUESTIONS-THE OFAC COMPLIANCE HOTLINE:

If you have any questions regarding OFAC-administered sanctions programs, call OFAC's Compliance Hotline at (202) 622-2490 on weekdays from 7:30 a.m. to 7:00 p.m. eastern time. OFAC also has a Miami branch office with a bi-lingual hotline relating to information on the Cuban embargo which can be reached by telephone at 305/810-5170.

NOTE: This overview is meant to alert mariners to potential issues arising under U.S. sanctions and does not have the force of law. Reference should be made to the controlling legal authorities to determine the applicability of specific prohibitions, exceptions and licensing provisions. The regulations governing OFAC sanctions programs are found in chapter V of title 31, Code of Federal Regulations. Prior to the issuance of regulations, a new OFAC sanctions program is governed by the relevant Presidential Executive order imposing sanctions and delegating implementation authority to the Secretary of the Treasury.

(Supersedes N.M. 1(65)99) (PUB0015/1999)